RECEIVED 区

BARTON L. KLINE ISB #1526

Idaho Power Company

P.O. Box 70

Boise, Idaho 83707

Phone: (208) 388-2682 FAX: (208) 388-6936 2004 DEC 15 PM 4: 54

IDAMO PUBLIC UTILITIES COMMISSION

FAX: (208) 388-6936

Attorney for Idaho Power Company

Express Mail Address

1221 West Idaho Street Boise, Idaho 83702

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE INVESTIGATION)	CASE NO.	IPC-E-04-15
OF FINANCIAL DISINCENTIVES TO)		
INVESTMENT IN ENERGY EFFICIENCY BY)	INVESTIGA	TIVE
IDAHO POWER COMPANY)	WORKSHO	P
)	STATUS RE	PORT
)		
)		

BACKGROUND

On May 25, 2004, The Idaho Public Utilities Commission (Commission) in Order No. 29505 (Idaho Power Company general rate case No. IPC-E-03-13) determined that a separate "proceeding to assess financial disincentives inherent in Company-sponsored conservation programs is appropriate and should proceed by informal workshops." The Commission's Order provided in relevant part as follows:

The Commission specifically directs the parties (Idaho Power, NW Energy Coalition, Industrial Customers of Idaho Power (ICIP) and Commission Staff) to address possible revenue adjustment when annual energy consumption is both above and below normal. The parties should also consider how much adjustment is necessary to remove DSM investment disincentives and whether (and to what extent) performance-based incentives such as revenue sharing could or should be incorporated into the resolution of this issue. The Commission is interested in proposals that could provide Idaho Power the opportunity to share and retain

benefits gained from efficiencies, especially technologies... In short, the Commission believes opportunities exist for improvements in operating efficiency that would benefit the Company shareholders and its customers, and we encourage the parties to creatively consider the options for a performance-based mechanism to present to the Commission. The parties to the agreement are directed to propose a workshop schedule and initiate a proceeding. (emphasis added)

Order No. 29505 at pp. 68, 69.

As a follow up to the Commission's Order, the NW Energy Coalition on June 18, 2004 formally requested that a proceeding be initiated and that a workshop schedule be established. The Commission in Order No. 29558 established this docket to investigate the financial disincentives which hinder Idaho Power's investment in cost-effective energy efficiency resources. The Commission stated that the scope of the investigation should be focused on decoupling and performance based ratemaking. The Commission directed the participating parties to provide a written report to the Commission no later than December 15, 2004 updating the Commission on the status of the investigative workshops.

PROCESS

The parties have participated in five workshops to date: August 24, September 27, November 8, December 1 and December 13, 2004. Workshops have included presentations by participants, group discussion, and assessment of areas of agreement and disagreement. Susan Hayman with North Country Resources, Inc., a Boise-based facilitation/mediation firm, prepares agendas and facilitates workshops. Four designated workshop coordinators representing each of the four major interests at the table (Idaho Power Company, Idaho Public Utilities Commission Staff, Industrial Customers of Idaho Power, and Northwest Energy Coalition) cooperate in designing workshops. Copies of workshop summaries for all but the December 13, 2004 workshop are provided as attachments to this Status Report. When the summary for the December 13, 2004 workshop is completed, it will be provided to the Commission as a supplement to this filing.

PARTICIPANTS

The following people have attended one or more workshops, receive meeting materials and summaries, and are considered active workshop participants:

Name and Affiliation

Name and Affiliation

IPUC Staff

Northwest Energy Coalition

Lynn Anderson

Nancy Hirsh, NW Energy Coalition

Randy Lobb

Bill Eddie, Advocates for the West

Terri Carlock

Ralph Cavanagh, Natural Resources Defense

David Schunke

Council

Scott Woodbury

Idaho Power

Industrial Customers of Idaho Power

Ric Gale

Peter Richardson, Industrial Customers of Idaho Power

Bart Kline

David Hawk, J.R. Simplot Co

Maggie Brilz

Don Reading, Ben Johnson Associates

Darlene Nemnich

Other Interested Parties

Greg Said Tim Tatum

Brad Purdy, Community Action Partnership Association

Mike Youngblood

of Idaho Laura Nelson, IPUC Policy Strategist

PROGRESS

Since the inception of the workshops on August 24, 2004 the signatories to this report have achieved the following:

- 1) Established and accepted a set of operational principles that guide the workshops;
- Clarified the nature and extent of financial disincentives to Idaho Power for investment in energy conservation through demand-side management programs (DSM);
- 3) Agreed that material financial disincentives do exist and will increase as DSM expenditures increase. Not all participants agree that restoration of lost fixed cost revenues would directly result in additional investment in DSM programs by Idaho Power;
- 4) Agreed on a set of evaluation criteria by which to compare and contrast potential mechanisms for removing financial disincentives and/or providing incentives for DSM programs;

- 5) Agreed to continue exploring two specifically proposed mechanisms: A true-up mechanism (referred to as a decoupling mechanism in early workshops) and a performance-based incentive mechanism;
- 6) Agreed to design a true-up mechanism simulation and a pilot program performance-based incentive mechanism to evaluate the effects of these two mechanisms. The simulation and pilot program will be the subject of further review and discussion at the next workshop.

TIMELINE

Participants established the following timeline at the December 1 workshop:

- 1) Provide this status report to the Commission on or before December 15, 2004, as specified in Order No. 29558;
- 2) Provide a full report to the Commission no later than January 31, 2005, including participant recommendations and rationale.

This Status Report to the Commission has been reviewed and approved by Idaho Power Company, Northwest Energy Coalition, the Commission Staff and the Industrial Customers of Idaho Power.

12-14-04

Date

Barton L. Kline

Attorney for Idaho Power Company and on behalf of Northwest Energy Coalition, the Commission Staff and the Industrial Customers of Idaho Power

Assessing Financial Disincentives and Resolution Opportunities, Workshop #2

SEPTEMBER 27, 2004, 9:30 A.M. TO 12:30 P.M. IDAHO POWER CORPORATE HEADQUARTERS, BOISE, ID

Facilitation Susan Hayman, North Country Resources, Inc. Documentation Natalie Chavez, Chavez Writing & Editing, Inc.

WORKSHOP OBJECTIVES

- 1) Develop operational protocols for the remaining workshops
- 2) Continue investigating the nature and extent of financial disincentives to energy conservation programs (DSM)
- Explore a potential decoupling mechanism to address DSM investment disincentives

WORKSHOP DECISIONS AND OUTCOMES

The next meeting will be held November 8, 2004, from 9:30am - 3:30pm at IPC. The morning will be spent reviewing results of action items 1 through 3 (below), while the afternoon will be reserved for discussing performance-based incentives.

ACTION ITEMS

1)	 Run a model of the following: a) IRP—rate impacts by class b) NWPCC—rate impacts by class c) Estimate of savings from conservation (using Aurora) 	Randy Lobb, Ric Gale, and Ralph Cavanagh
2)	Discuss development of a tool to poll customers about energy- conservation/efficiency programs.	David Hawk and Ric Gale
3)	Recalculate numbers with an interim rate case but in the absence of a true-up mechanism.	Lynn Anderson
4)	List ideas for possible performance-based incentives, and develop a "strawman" if an idea stands out.	All
5)	Make requested changes to "Operational Protocol" and to "Definitions." E-mail revised documents to participants.	Susan Hayman

WORKSHOP OPERATIONAL ISSUES

Susan Hayman welcomed participants (Appendix 1), had them introduce themselves, and then reviewed the agenda (Appendix 2). Participants had no changes to the agenda. Hayman had compiled an operational protocol for the series of workshops, based on conversations she had with participants. The group reviewed and made the following revisions to (decisions about) the operational protocols for the workshops (Appendix 3):

- Workshop Purpose statement 1—add "and customers" to the end of the clause
- Workshop Purpose statement 2—retain "performance-based ratemaking" since that language appeared in the IPUC order (Order No. 29558, p. 2), but add "incentives" in parentheses following that phrase

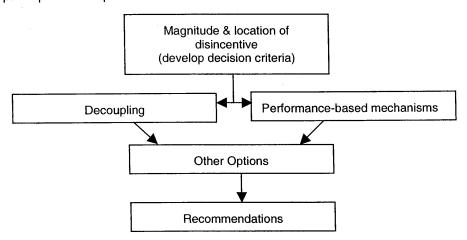
- Roles and Responsibilities statement <u>2f</u> designate coordinators: IPC-Mike Youngblood, IPUC-Lynn Anderson, NWEC-Bill Eddie, and Industrial Customers-Peter Richardson
- Analysis statement—replace the question with "Analysis needs will be identified and assigned as they
 emerge."

Hayman also provided a definitions list for review (Appendix 4). Following are the revised definitions for "demand side management" and "true-up." Definitions for "performance-based incentives" and "decoupling" stood as worded.

- Demand Side Management (DSM): Management tools and actions that are designed to result in decreases or shifts in customer energy demand and/or consumption.
- True-Up: A decoupling mechanism where a periodic adjustment in electric rates is used to correct for disparities between a utility's actual fixed-cost recovery and its authorized fixed-cost recovery.

NATURE & EXTENT OF FINANCIAL DISINCENTIVES

Hayman distributed questions raised in conversations with participants and grouped into categories (Appendix 5). These questions could be revisited after today's discussions to see which had been answered and which remained. Some could also be assigned for analysis, if appropriate. She also shared a flowchart she had drawn on the whiteboard and asked if there was any dissension about the process. Workshop participants accepted the flowchart.



Fixed-Cost Revenue Loss Analyses

Prior to the workshop, Lynn Anderson, IPUC, had e-mailed participants a memo and Excel worksheet (Appendix 6). He had calculated IPC's fixed-cost revenue losses under three 9-year scenarios that he had developed to try to quantify the nature and extent of financial disincentives. These calculations are gross estimates that are not adjusted for taxes, cost changes, offsetting benefits, etc. They also assume no intervening rate cases, which would reset the <u>base rates upon which the fixed-cost revenue loss would be calculated on a going forward basis. to zero.</u> He shared that information with the whole group and answered questions.

Integrated Resource Plan Scenario

- Under the IRP scenario, the fixed-cost revenue loss grows to about \$1.3 million per year by 2013.
- The 9-year total for all rate classes is about \$6 million, with a net present value of about \$4 million. The residential 9-year total is about \$2 million. These figures are based solely on energy charges, not energy and demand charges. Adding fixed-cost revenue loss from demand savings would increase the \$6 million by about a third.

Northwest Energy Efficiency Alliance (NEEA) efforts were excluded from the scenario.

Northwest Power and Conservation Council Scenario

- Under the NWPCC scenario, the fixed-cost revenue loss grows to about \$23 million per year by 2013. The 9-year total for all rate classes is about \$114 million, with a net present value of about \$75 million. The residential 9-year total is about \$51 million.
- Results from this analysis are consistent with numbers that Ralph Cavanagh came up with. His
 calculations show \$45 million in fixed-cost revenue loss over the first five years, his number includes
 demand charge losses as well as energy charge losses. Anderson arrived at \$38 million using only
 energy charge losses.
- For the commercial class, the loss/MWh unsold jumped from \$9.70 under the IRP scenario to \$41.50 under the NWPCC scenario. This class included both schedule 07 and 09 rate classes though. If the analysis were fine-tuned, this discrepancy would need to be addressed.
- IPC's share of 6.5% is based on sales. The potential is greater since IPC hasn't done much DSM in the last several years.
- How rate cases would affect the \$114 million was uncertain. Intervening rate cases reset fixed-cost
 revenue requirements but do not allow IPC to recover revenue losses incurred since the previous rate
 case. Ric Gale said that an analysis of what would happen would be fairly simple to do.

Historical Residential Scenario

- Under this scenario, only residential fixed-cost revenue losses are calculated. Using weather-normalized kWh per customer consumption data, the hypothetical fixed-cost revenue loss grows to \$18 million in 2003, the 9th year following IPC's 1994 rate case.
- The \$18 million shown for 2003 is almost identical to what the IPUC will give IPC for the rate increase
 for residential customers under the just-completed rate case, despite the scenario being an
 oversimplification.
- Average monthly per customer usage decreased by 143 kWh in the 9-year period. During this time, IPC had very little residential DSM; its participation in NEEA probably accounts for less that 5% of the reduction. The reductions are mostly focused into two years (2001 and 2002) when there was also a nationwide reduction in electricity consumption. There were also 40% PCA increases in those two years. These electricity savings may have been offset by increased gas consumption.

Summary—Areas of Agreement

After the three scenarios were presented and discussed, participants listed their conclusions about the magnitude of the problem and the location of disincentives. Below are issues that were raised during this discussion:

- IPC's historical lost revenues are a disincentive to something, but it's difficult to say that they are a
 disincentive to energy efficiency since the lost revenues in the third scenario are not associated with
 DSM.
- If there is a relatively aggressive DSM program and it achieves energy-efficiency objectives, there is a cost to the company. What remains unknown is how much it would cost to "fix" the problem and whether that price is tolerable. In addition, it is important to understand what IPC would do differently if the company recovered costs incurred through DSM.
- "Demand reduction" occurs with higher pricing. But higher pricing isn't the solution that people are looking for. They would like to know how to separate demand reduction due to energy-efficiency programs from that due to higher prices. Also, what are the impacts of different energy-efficiency programs?

"STRAWMAN" PROPOSAL FOR AN IDAHO POWER TRUE-UP MECHANISM

Ralph Cavanagh introduced a strawman proposal for a true-up mechanism (Appendix 8). A true-up mechanism is "not about paying the company anything; it simply provides IPC a means for recovering fixed costs." It is designed around an authorized fixed-cost revenue requirement.

Under his proposal, the starting point would be the fixed-cost revenue requirement and retail rates approved by the IPUC in the latest IPC rate case. If, after the first year, changes in retail electricity use lead to under- or overrecovery of the fixed-cost revenue requirement, then a rate true-up would occur in the following year on the same schedule as IPC's current PCA. Until reestablished in the next IPC rate case, the currently approved fixed-cost revenue requirement would be automatically adjusted annually to reflect the same rate of increase or decrease shown for retail electricity sales, net of any DSM programs, in IPC's latest IRP. True-ups would occur annually based on any divergence between the total fixed-cost revenue recovery that forecast sales would have delivered and the fixed-cost revenues actually recovered. The true-ups would be done for each customer class based on divergence between actual and forecast sales to each customer class. IPC would continue to absorb the risk or benefits of purely weather-related effects on fixed-cost revenue recovery, as it does now. Actual sales would be weather normalized before the annual true-up calculation was made. Cavanagh emphasized that the maximum annual anticipated rate impact of the true-up mechanism, up or down, under extreme conditions would be 1.5%.

Several issues were raised during the presentation and associated discussion (Appendix 9):

- This mechanism does not include figuring out how much of the difference is attributable to different factors.
- Because the fixed-cost revenue requirement would track forecasted sales rather than historical sales, IPC would not be paying extra if DSM programs were successful. Every year, the company would be truing up to a number known in advance at the same schedule that is now used.
- Although Cavanagh proposed truing up for every customer class (except special contracts because of other complexities), the mechanism would work in part (for certain customer classes).
- At one point, IPC classified DSM as a supply side investment: the money was capitalized and amortized over a number of years. But the benefits didn't materialize for a number of reasons.
- Basing the true-up mechanism on forecasted sales might motivate IPC to inflate its forecasted numbers. Deterrents might include having the forecast adopted independently or using a different index after the next general rate case.
- To better understand the effects of DSM on fixed-cost revenue loss, people suggested rerunning the scenarios and running the Aurora model, given some of the discussion points raised during the workshop. The following action items resulted from this discussion and were assigned to Randy Lobb, Ric Gale, and Ralph Cavanagh to coordinate:
 - Rerun the IRP scenario with rate impacts by class
 - Rerun the NWPCC scenario with rate impacts by class
 - Use Aurora to estimate changes in power supply costs that may result from increased levels of energy savings from conservation
 - o Recalculate scenario numbers with an interim rate case (assigned to Lynn Anderson)
- A poll of customers' appetite for energy-efficiency programs might help in estimating potential savings from conservation. David Hawk and Ric Gale will discuss the value and development of a poll.

NEXT STEPS/WRAP-UP

Hayman reviewed action items that need to be done before the next workshop. This workshop was set for November 8, 2004, from 9:30am - 3:30pm at IPC. The morning will be spent reviewing results of the model runs and Anderson's scenarios with an interim rate case included. The afternoon will be reserved for discussing performance-based incentives. Gale encouraged people to develop other strawmen if they

have ideas. Cavanagh offered to circulate a proposal for a performance-based mechanism in advance of the workshop.

During a quick workshop evaluation, participants asked that people who will be sharing information distribute that information in advance so that people have a chance to review it.

APPENDIX 1—PARTICIPANTS

Name and Affiliation	E-mail Address	Phone No.
Peter Richardson, Industrial Customers of Idaho	peter@richardsonandoleary.com	938-7901
Don Reading, Ben Johnson Associates	dreading@mudspring.com	342-1700
Mike Youngblood, Idaho Power	myoungblood@idahopower.com	388-2882
Maggie Brilz, Idaho Power	mbrilz@idahopower.com	388-2848
Greg Said, IPC	gsaid@idahopower.com	388-2288
Lynn Anderson, IPUC	landers@puc.state.id.us	334-0353
Brad Purdy, Self	bmpurdy@hotmail.com	384-1299
Randy Lobb, IPUC	rlobb@puc.state.id.us	334-0350
Bart Kline, Idaho Power	bkline@idahopower.com	388-2682
Ralph Cavanagh, Natural Resources Defense Council	rcavanagh@nrdc.org	(415) 875-6100
Darlene Nemnich, Idaho Power	dnemnich@idahopower.com	388- 280 5 <u>2505</u>
Tim Tatum, Idaho Power	ttatum@idahopower.com	388-5515
Laura Nelson, IPUC	Inelson@puc.state.id.us	334-0363
Scott Woodbury, IPUC	swoodbu@puc.state.id.us	334-0320
David Schunke, IPUC	dschunk@puc.state.id.us	334-0355
Bill Eddie, Advocates for the West	billeddie@rmci.net	342-7024 x 3
Ric Gale, Idaho Power	rgale@idahopower.com	388-2887
Terri Carlock, IPUC	tcarloc@puc.state.id.us	334-0356
David Hawk, J.R. Simplot Co.	david.hawk@simplot.com	389-7306

APPENDIX 2—AGENDA

Assessing Financial Disincentives and Resolution Opportunities Workshop #2

September 27, 2004 9:30am-12:30pm Auditorium East Idaho Power Corporate Headquarters Boise, Idaho

Objectives:

- 1) Develop operational protocols, objectives and outcomes for this effort;
- Continue investigating the nature and extent of financial disincentives to energy conservation programs (DSM);
- 3) Explore a potential decoupling mechanism to address financial disincentives.

Draft Agenda

Time	Topic	Process	
9:00am	Coffee/Tea available in meeting room		
9:30am	Welcome/Introductions/Meeting Overview – Susan Hayman, Facilitator	Information	
9:40am	Workshop Operational Issues – Susan Hayman Workshop series purpose and products (incl. terminology) Participant roles & responsibilities Decision-making Documentation	Information/Discussion	
10:20am	Nature & Extent of Financial Disincentives Fixed-Cost Revenue Loss Analyses – Lynn Anderson — Important Omissions, Caveats and Disclaimers — DSM-caused losses under IRP projection — DSM-caused losses under NWPCC draft DSM projection — Residential historical declining kWh per customer Areas of agreement on the current situation	Presentation Discussion	
11:20am	BREAK		
11:30am	"Strawman" Proposal for an Idaho Power True-Up Mechanism – Ralph Cavanagh	Presentation Discussion	
12:10pm	Wrap-Up – Susan Hayman Workshop schedule Agenda items for next workshop – Susan Hayman Evaluation	Discussion	
12:30pm	Adjourn		

APPENDIX 3—OPERATIONAL PROTOCOLS

Workshop Series - Operational Protocol

Workshop Name: Assessing Financial Disincentives and Resolution Opportunities

Workshop Purpose:

- To investigate the nature and extent of financial disincentives to investment in energy efficiency by Idaho Power Company and customers;
- 2) To investigate decoupling and performance-based ratemaking (incentives) as mechanisms to address financial disincentives (IPUC Order # 29558, 8/10/2004). Other mechanisms can be subsequently explored if the participants agree that this would be useful.

Workshop Products: A written report to the Idaho Public Utilities Commission to update the Commission on the status of the investigative workshops. This report will include a summarized assessment of:

- 1) The nature and extent of financial disincentives to investment in energy efficiency by Idaho Power Company;
- Recommendations regarding specific decoupling and/or performance-based mechanisms that may reduce/remove these financial disincentives.
- 3) Recommendations for next steps.

Workshop Tenure: August 24 through December 15, 2004

1) Composition of Workshop Participants

While workshops will be open to the public, it is expected that participants will generally represent the Idaho Public Utilities Commission, Idaho Power Company, Northwest Energy Coalition, representatives of industrial customers, representatives of residential customers, and representatives of irrigation customers.

2) Roles & Responsibilities of Workshop Participants

- a) Be active in the discussion, be solutions-oriented, and act in "good-faith."
- b) Help others at the table to understand your interests, and actively seek to understand the interests of others.
- c) Be informed Review the previous workshop summary, the agenda and prework in advance of the next workshop.
- d) Follow-through in a timely manner with any assigned action items.
- e) Attend workshops regularly the group will not revisit decisions/discussions missed by others.
- f) Workshop Coordinators: One representative each from Idaho Power Company (Mike Youngblood), Idaho Public Utility Commission (Lynn Anderson), and Northwest Energy Coalition (Bill Eddie), and industrial customers (Peter Richardson). Responsibilities include coordination with the facilitator on the workshop objectives, outcomes, agenda and process.

3) Role & Responsibilities of the Facilitator

- Manage the workshops, serve as a process coach, maintain neutrality and impartiality, and reinforce the collaborative process.
- b) Refine the objectives and outcomes for each workshop, in cooperation with the workshop coordinators. Propose a workshop agenda and appropriate processes to reach the identified

Page 1 of 1 - Operational Protocol

- objectives and outcomes, and finalize this with the coordinators. The agenda, and any prework materials, will be distributed to participants at least one week prior to each workshop.
- c) Communicate with participants outside of workshops as needed.
- d) Maintain a record of workshop participants, and a summary of workshop discussions (see #6, Record Keeping).
- e) Assist in preparation/compilation of the written report to the Idaho Public Utilities Commission.

4) Analysis

Who is going to provide analysis support for this workshop (collect data, develop and analyze seenarios, etc.)? Analysis needs will be identified and assigned as they emerge.

5) Decision-Making

- a) Entities with multiple representatives: While each individual participant will have input into the workshop deliberations, it is desirable that each entity represented speak with one voice in decision-making. Therefore, while numerous individuals may represent a given entity at a workshop, it is expected that one person will speak on behalf of the entity when decisions are made. Each entity should designate that person in advance. The facilitator will provide time for representatives to consult with each other as needed prior to critical decisions.
- b) Types of decisions: There are two types of decisions participants will make:
 - Workshop decisions: These decisions are related to workshop topics, process and schedule. Workshop decisions already made by the IPUC in Orders 29505 and 29558 will be honored. Decisions at the discretion of the group will be made by consensus.
 - Product decisions: These decisions are related to the findings and recommendations workshop participants will present in their written report to the IPUC on December 15, 2004. Consensus will be the goal However, if consensus cannot be reached, areas of agreement and disagreement on the findings and recommendations will be provided in the written report.

6) Record-Keeping

- a) The facilitator will arrange for notes to be taken on a laptop computer during the workshop. The distributed workshop will include key discussion points, decisions, areas of agreement and disagreement, action items, etc. They will not be a transcription of "who said what."
- b) The facilitator will be responsible for preparing the workshop summary and distributing it to participants within three business days after each workshop.
- c) The facilitator will maintain a file of all workshop summaries, handouts, and products.

7) Principles of Meeting Conduct

- a) Focus attention on the speaker (no side conversations)
- b) Be specific, but succinct, in questions and comments
- c) Participate fully, but don't dominate the discussion.
- d) Respect other's contributions, and learn from them.
- e) Challenge ideas, not people
- f) Be on time
- g) Turn cell phones, pagers or other electronic devices off or inaudible during meetings.

Page 2 of 2 - Operational Protocol

APPENDIX 4—DEFINITIONS (WITH REVISIONS)

Definitions

Demand Side Management (DSM): Management tools and actions that are designed to result in decreases or shifts in customer energy demand and/or consumptionAnything that a utility does that affects customer energy demand, consumption and/or time of use.

Performance-Based Incentives (PBI): Mechanisms that allow a utility to share and retain benefits gained from energy efficiencies, as well as provide consequences for failing to meet efficiency goals.

Decoupling: Severing the link between a utility's kWh sales and its recovery of revenues to cover fixed costs.

True-Up: A decoupling mechanism where a periodic adjustment in electric rates is used to correct for disparities between a utility's actual fixed cost recoveries recovery and its authorized fixed-cost recovery rate of return.

APPENDIX 5—QUESTIONS RAISED IN PARTICIPANT CONVERSATIONS Ouestions Raised in Participant Conversations

Financial Disincentives

- What effects do disincentives have on customers and on IPC?
- What is the projected loss of revenue to IPCO from DSM programs over the next 10years?
- What are the NWPC projections of demand over the next 10 years (relevant to IPCO)?
 - What would the removal of disincentives accomplish for customers and IPCO?
- Should IPCO be "made whole" when they encourage customers to use less of their products (and what does it mean to be "made whole")?
 - What should be the basis for reimbursement of lost kWh and out-of-pocket cost to support DSM?
- If disincentives were not in place, could IPCO invest more in DSM?
- Are there disincentives to DSM other than financial?

DSM Programs

- □ What effect does DSM have on resource acquisition?
- If customers ultimately have to pay more (to decouple fixed costs from variable energy use), what DSM programs will be created?
- Should there be consequences for not investing in DSM?
- ☐ If funds are invested to support DSM programs...
 - -- How will these funds be administered?
- -- How will the efficacy of administration be measured/monitored?

Questions Raised in Participant Conversations (cont'd)

Decoupling and/or Performance-Based Mechanisms

- What effects would decoupling have on customers and on IPCO?
- If decoupling would have been in place during the last 10 years, what would have been the effect on customers and IPCO (state assumptions)
- If decoupling were adopted at IPCO, what would be the options for structuring (rate classes, class-specific or system-wide, apply to energy charges or both energy and demand charges, etc.)
- What are the side effects to decoupling?
- What effects would performance based mechanisms have on customers and on IPCO?
- □ What are the side effects to performance-based incentives?
- What criteria will we use to evaluate decoupling and performance-based mechanisms?

Other Mechanisms

□ Are there more appropriate mechanisms than decoupling and/or performance-based mechanisms to address IPCO financial disincentives?

APPENDIX 6—FIXED-COST REVENUE LOSS ANALYSES

IPC DSM F-C Revenue Loss - IRP

							20171				
Γ	C	nly DSM Sel	ected in the	2004 IRP <i>(200</i>	94-2013 Plan	ning Period)			A CONTRACTOR OF THE PARTY OF TH	and the first of t	
۱		Idaho I	Power IPC-E-0	endix							
۱			Er	nergy Savings	: (Excluding NEEA)					
١			Net of Free	Riders, Includ	es Losses		(Nı	ımbers	by IPC	9/21/0	4)
١			Energy Sav	ings (Megaw	att-hours)		P	<u>eak Re</u>	duction	(MW)	
١	<u>Year</u>	Residential	Commercial	<u>Irrigation</u>	<u>Industrial</u>	Total MWh	Res.	Com.	<u>lrrig.</u>	Ind.	Total
- 1	2005	1,070	389	5,767	9,427	16,653	0.6	0.1	2.9	1.2	4.9
۱	2006	2,625	1,087	11,534	18,853	34,100	1.5	0.4	5.8	2.4	10.1
ı	2007	4,193	1,900	17,300	28,280	51,674	2.5	0.7	8.7	3.6	15.4
	2008	5,784	2,810	23,067	37,706	69,367	3.4	1.1	11.5	4.8	20.8
- 1	2009	7,397	3,801	28,834	47,133	87,166	4.3	1.5	14.4	6.0	26.2
١	2010	9,205	4,861	34,601	56,559	105,226	5.3	1.9	17.3	7.2	31.7
۱	2011	11,028	5,980	40,368	65,986	123,363	6.3	2.4	20.2	8.4	37.2
١	2012	12,872	7,149	46,134	75,412	141,566	7.3	2.8	23.1	9.6	42.8
	2013	14,734	8,359	51,901	84,839	159,833	8.3	3.3	26.0	10.8	48.3
od				aM	W (2004 IRP)=	18.25	8.3	3.3	26.0	10.8	48.3
	Total	68,908	36,337	259,506	424,195	788,946	Pea	k MW (E	nergy Pr	ograms)	
•							Peak	MW (Dei	mand Re	sponse)	
							Total	Peak M	W Select	ed DSM	123.9

End of IRP Planning Period

Calculation of Fixed	Cost Lost Re	venue per N	MWh for Vario	us Rate Schedules
	Residential	Commercial ^a	<u>Irrigation</u>	Industrial**
Energy Rate (\$/MWh)	51.9	30.0	32.6	21.8
Variable Cost (\$/MWh)	20.7	20.3	<u>23.5</u>	<u> 18.5</u>
Loss/MWh unsold	\$31.20	\$9.70	\$9.10	\$3.30

Note that the \$/MWH here are diff. for com. & indust. than on NWPCC sheet

^(*) Commercial rate is a weighted avg. of schedules 07 & 09S based on energy use. (**) Ind. rate is a wghtd. avg. of schs. 09 P & T and 19 S, P & T based on energy use.

		Fixed Cos	ts Not Reco	vered Due to	DSM Select	ed in IRP	
	<u>Year</u>	Residential	<u>Commercial</u>	<u>Irrigation</u>	<u>Industrial</u>	<u>Total</u>	
1	2005	\$33,370	\$3,775	\$52,480	\$31,109	\$120,734	
	2006	81,905	10,548	104,959	62,215	259,627	
	2007	130,837	18,432	157,430	93,324	400,023	The fixed-costs not
	2008	180,467	27,256	209,910	124,430	542,063	recoverd at left are the
1	2009	230,799	36,871	262,389	155,539	685,599	product of multiplying
	2010	287,187	47,156	314,869	186,645	835,857	each year's energy
	2011	344,084	58,008	367,349	217,754	987,194	savings (excluding NEEA)
	2012	401,601	69,341	419,819	248,860	1,139,621	in the top box by the
End of IRP Planning Period	2013	459,689	81,082	472,299	279,969	1,293,038	loss/MWh unsold in the middle box (IPC adj. of
WACC =	Total	\$2,149,939	\$352,469	\$2,361,505	\$1,399,844	\$6,263,756	Eric Hirst numbers). The "losses" are not adjusted
PV 9-yr. (200		\$1,434,141	\$ 232,128	\$1,593,395	\$ 944,526	\$ 4,204,190	for income taxes, cost changes, offsetting
Avg	Annual	429,988	70,494	472,301	279,969	1,252,751	benefits, etc. All losses
Levelize	d (9-yr.)	214,415	34,705	238,224	141,214	628,557	assume no rate cases 2005-2013.

customer class.
All revenue losses assume no intervening rate cases and no customer growth.

idaho Power-Idaho Only Sales and Customers

IPC DSM F-C Revenue Loss - Historical

1	Reside	ntial Only				Hypothetical		
١		-	Weather		Weather	Fixed-Cost		
١		Residential	Normalized		Norm. kWh	Revenue		
	<u>Year</u>	<u>Revenue</u>	MWh Sold	<u>Customers</u>	Cust./mo.	Loss		
١	1987	\$129,436,545		217,104				
	1988	140,569,164		219,005			•	
1	1989	155,211,941		221,617				
	1990	153,080,652		226,323				
	1991	162,388,156		231,347				
	1992	158,306,311		237,837				
	1993	173,124,151	3,524,040	246,278	1,192			
	1994	174,880,654	3,589,867	255,735	1170			
	1995	184,321,208	3,717,787	264,901	1170	23,324		
	1996	191,716,079	3,776,360	273,834	1,149	2,108,207		
	1997	190,655,639	3,864,922	282,054	1,142	2,945,197		
	1998	201,626,186	3,987,589	290,532	1,144	2,831,082		
	1999	203,972,260	4,076,279	300,072	•	4,242,165		
	2000	215,560,768	4,160,997	309,499	1,120	5,727,683		
	2001	250,774,139	4,142,665	318,076	1,085	10,056,112		
	2002	296,274,337	4,100,268	326,788	1,046	15,194,468		
	2003	266,499,664	4,141,393	336,204	1,027	18,035,272		
					9-year total:	= \$61,163,509		
	1							

Post 1994 "Hypothetical Fixed-Cost Revenue Loss" calculation uses 1,170 kWh per month as the residential weather normalized consumption base.

The average consumption decrease of 143 kWh from 1,170 in 1994 to 1,027 in 2003 represents a 1.4% average annual decrease. Idaho Power had very little residential DSM during this time period. It is likely that increased natural gas penetration is responsible for most of the decreased electricity use.

The calculation uses \$31.20 as the residential "loss/MWh unsold" (IPC's update to Hirst's number) and assumes the fixed-cost lost revenue recovery formula would have compensated IPC for all weather normalized declining kWh sales per customer.

Total Retail Sales, All Classes

	Revenue	<u>MWh</u>	Customers
1994	434,690,290	11,622,194	306,881
1995	438,527,438	11,395,255	317,760
1996	458,675,200	12,410,881	328,676
1997	454,141,771	12,594,311	339,022
1998	488,226,974	12,720,471	349,339
1999	489,565,724	13,077,842	360,021
2000	537,735,312	13,895,478	370,101
2001	624 448 755	12.391.914	380,593

\$	/MWh From IPC's 3	3/30/04 Eric F	lirst Deco	upling Report, p. 5 - IPC Updated
_	Res.	Com7	Irrig.	Industall 9 & 19 sch. (wt. avg.)
Energy Charge	51.90	62.60	32.60	24.40 Note that the \$/MWH here
Variable Cost	<u> 20.70</u>	<u>21.10</u>	23.50	19.50 are diff. for com. & indust.
Loss/MWh unsold	\$31.20	\$41.50	\$9.10	\$4.90 than on IRP-selected sheet.

				Actual	Actual	
	1-yr.			1-yr. Avg.	3-yr. Avg.	
	Avg.	Revenue	Actual	kWh/cust.	kWh/cust.	Weather Norm.
<u>Year</u>	<u>Bill</u>	<u>per kWh</u>	Kwh sold	per month	<u>per month</u>	<u>kWh Sold</u>
1987	49.68	0.0432	2,995,218,168	1,150		
1988	53.49	0.0446	3,148,903,043	1,198		
1989	58.36	0.0469	3,306,433,702	1,243	1,197	
1990	56.37	0.0474	3,230,831,759	1,190	1,210	
1991	58.49	0.0473	3,430,432,527	1,236	1,223	
1992	55.47	0.0481	3,289,387,264	1,153	1,193	
1993	58.58	0.0483	3,582,828,720	1,212	1,200	3,524,040,421
1994	56.99	0.0484	3,610,314,912	•	1,180	3,589,867,417
		8-y	r. Average, 198	7 to 1994 =	1,195	
1995	57.98	0.0518	3,556,816,130	1,119	1,169	3,717,787,134
1996	58.34	0.0508	3,775,150,065	1,149	1,148	3,776,360,493
1997	56.33	0.0496	3,843,356,042	1,136	1,134	3,864,921,749
1998	57.83	0.0518	3,891,822,308	1,116	1,134	3,987,588,792
1999	56.65	0.0510	3,997,632,389	1,110	1,121	4,076,279,049
2000	58.04	0.0515	4,189,182,972	1,128	1,118	4,160,997,320
2001	65.70	0.0609	4,117,127,872	1,079	1,106	4,142,664,831
2002	75.55	0.0706	4,197,803,194	1,070	1,092	4,100,268,216
2003	66.06	0.0629	4,238,675,325	1,051	1,067	4,141,393,426

APPENDIX 7—FLIP CHARTS REGARDING ANALYSES

Financial Disincentives

(Lynn Anderson's Presentation)

- 1) Add in lost demand charge to calculating of total financial loss (IRP scenario)
- \$6 million loss in revenue under IRP DSM projections. IRP—no tax impact if company made whole
- Lynn's projections do not include savings from NEEA.
- \$114 million loss in revenue under NWPCC scenario.

Conclusions—Financial Disincentives

- IPCo historical lost revenues is a disincentive to something. Historically, not tied to DSM.
- If there is a relatively aggressively DSM program, and achieves objectives, there is a cost to company.
- 3) "Demand destruction" occurs with higher pricing.
- Lost revenues occur with successful DSM programs
 - -is it a disincentive

Financial Disincentives (cont.)

- 5) 6.5% kWh sold in NWPCC attributed to IPC
- 6) Intervening rate cases reset fixed-cost requirements, but do not allow IPCO to recover lost \$\$ since previous rate case.
- (hist) NEEA effects < 5% customer use—has occurred without utility DSM programs.
- 8) Over 9-year period, utility had no active residential DSM program.

APPENDIX 8—"STRAWMAN" PROPOSAL FOR AN IDAHO POWER TRUE-UP MECHANISM

"STRAWMAN" PROPOSAL FOR AN IDAHO POWER TRUE-UP MECHANISM Submitted by Ralph Cavanagh, NRDC (9/22/04)

- 1. Starting point: fixed-cost revenue requirement and retail rates approved by Idaho PUC in latest Idaho Power rate case.
- 2. If, after initial year, changes in retail electricity use lead to under- or over-recovery of fixed cost revenue requirement, a rate true-up would occur in the following year on the same schedule as the Company's current Power Cost Adjustment.
- 3. Until reestablished in the next Idaho Power rate case, the currently approved fixed cost revenue requirement would be automatically adjusted annually to reflect the same rate of increase (or decrease) shown for retail electricity sales, net of any DSM programs, in Idaho Power's latest IRP. True ups would occur annually based on any divergence between the total fixed-cost revenue recovery that forecast sales would have delivered and the fixed-cost revenues actually recovered (so if, for example, sales were forecasted to increased by 2 percent and actually increased by a larger percentage, Idaho Power would refund the difference at the time of the next Power Cost Adjustment; if retail sales increased by a smaller percentage than forecast, Idaho Power would get back the lost revenues at the time of the next Power Cost Adjustment).
- 4. True-ups would occur by customer class based on divergence between actual and forecast sales to each customer class.
- 5. Idaho Power would continue to absorb the risk or benefits of purely weatherrelated effects on fixed-cost revenue recovery, as it does now. This would mean weather normalizing actual sales before making the annual true-up calculation.

MAXIMUM ANNUAL ANTICIPATED RATE IMPACT OF THE TRUE UP MECHANISM, UP OR DOWN, UNDER EXTREME CONDITIONS = 1.5 PERCENT.

APPENDIX 9—FLIP CHARTS REGARDING STRAWMAN PROPOSAL

Strawman Proposal

- 1) True-up by each customer class
- Mechanism could be applied to individual/selected classes and still be acceptable*
- 3) Remove special contracts from mechanism.
- *Plea to not exclude industrial class
- Predicted load growth in each class to establish authorized revenue requirement.

Strawman Proposal (cont.)

- 6) True-up would result in surcharges/benefits by rate class
- Forecast of fixed-costs may, potentially, create an incentive to inflate the forecast in the future.
- 8) Because this rate case is already decided, fixedcost projections would be established without consideration of true-up mechanism effect
 - -- May be a challenge in the future
 - -- May apply inflation factor in future

ASSESSING FINANCIAL DISINCENTIVES AND **RESOLUTION OPPORTUNITIES, WORKSHOP #3**

NOVEMBER 8, 2004, 9:30 A.M. TO 3:30 P.M. AUDITORIUM EAST, IDAHO POWER CORPORATE HEADQUARTERS, BOISE, ID

Susan Hayman, North Country Resources, Inc.

Documentation Natalie Chavez, Chavez Writing & Editing, Inc.

WORKSHOP OBJECTIVES

- 1) Continue investigating the nature and extent of financial disincentives to energy conservation programs; identify areas of agreement and any additional information needs.
- Identify criteria that workshop participants would use to evaluate the applicability/desirability of potential mechanisms to address disincentives.
- Brainstorm potential mechanisms to address disincentives, including additional true-up mechanisms, performance-based incentives, etc.

WORKSHOP DECISIONS AND OUTCOMES

The next meeting is scheduled for December 1, 9:30am to 3:30pm at IPC. An additional meeting is set for December 13. If people with action items are unable to complete them in time for the December 1 meeting to be productive, that meeting will be cancelled and all parties notified by Susan Hayman, facilitator.

ACTION ITEMS

	What?	Who?	When?
1)	Check with Commission regarding scope of performance- based incentive discussion (is it DSM-related only?) and provide response to the workshop participants	Randy	ASAP
2)	Talk with Bill Eddie about report coordination; reply to Hayman	Nancy	November 9
3)	E-mail proposed report coordination assignments to the workshop participants	Susan	In next few days
4)	Coordinate timing of status report	Susan	Next meeting or e-mail
5)	Develop PBR strawman suitable for Idaho and successfully demonstrated elsewhere	IPUC	Next meeting
6)	Refine true-up mechanism	Ralph	Next meeting
7)	Analyze the refined true-up strawman and PBR strawman	IPC	Deferred

¹ With the approval of workshop participants, Workshop Objectives 2 and 3 were deferred to the December 1 workshop to allow for more extensive presentation and discussion of financial disincentives information at this workshop.

WORKSHOP INTRODUCTION

Susan Hayman, North Country Resources, welcomed participants (Appendix 1), had them introduce themselves, and then reviewed the agenda (Appendix 2). She distributed revised copies of the operational protocols (Appendix 3) and reviewed posters showing purpose, products, definitions, and principles of meeting conduct (Appendix 4). Although three key participants representing the NWEC perspective were absent², the group decided to listen to planned presentations, discuss the information, and represent the NWEC perspectives as best they could, but not draw any conclusions until the others were present.

CONTINUED EXPLORATION OF FINANCIAL DISINCENTIVES

Scenarios with Interim Rate Cases

Before the workshop, Lynn Anderson, IPUC e-mailed participants a memo and two Excel worksheets (Appendices 5 and 6). He had incorporated three interim rate cases to recalculate IPC's fixed-cost revenue losses under two of the three 9-year scenarios that he had presented at the September 27 workshop. Under both scenarios, forward-looking revenue losses from past DSM efforts are eliminated (except for an assumed six-month lag between the end of the rate case test year and rate implementation), even though past DSM savings are assumed to persist into the future. DSM efforts that occur after each rate case test year result in new fixed-cost revenue losses that accrue until the next rate case. As a surrogate for rate case adjustments, the levels of fixed-cost revenues per MWh are increased by the average MWh growth rate projected in the IRP for each rate class.

Anderson first showed results of his recalculations of the IRP level of DSM (which excludes NEEA). The IRP rate-case adjusted, 9-year total fixed-cost revenue loss is \$3 million, or about half of the \$6.2 million presented previously. The present value of the \$3 million is about \$2 million, and the levelized loss is \$0.3 million per year.

Next, he showed results under IPC's 6.5% share of the NWPCC level of DSM (which includes NEEA, fuel conversions, building codes, appliance standards, and other DSM for which utilities have limited, little, or no control). The NWPCC rate-case adjusted, 9-year total fixed cost revenue loss is \$54.6 million, compared with the \$114.2 million presented previously. The present value of the \$54.6 million is about \$39 million, and the levelized loss is \$6 million per year.

Prior to the meeting, Cavanagh e-mailed a response to Anderson's recalculations (Appendix 7). Copies were made and distributed to those who had not received the e-mail. First, Cavanagh reminded people that NWPCC projections were not the upper limits of energy efficiency targets. Second, he disagreed with Anderson's elimination of continued revenue losses after a rate case. According to Cavanagh, using this approach understates IPC's losses from persistent savings and rewards short-lived efficiency measures while discouraging durable savings.

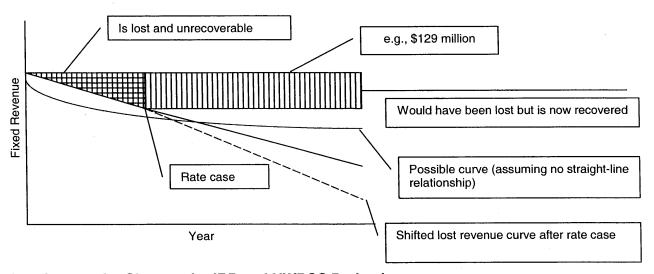
Following the presentation, participants raised and discussed the following issues:

- IPC loses fixed cost revenues when consumption declines. It is still uncertain how much reduced
 consumption is due specifically to DSM rather than to other factors. Therefore, some participants
 aren't certain whether this situation is best resolved by a true-up mechanism or some other
 disincentive/incentive mechanism.
- A decoupling/recoupling or true-up mechanism is not an incentive but a removal of a disincentive.
- More frequent rate cases would reduce fixed cost lost revenue even more than the hypothetical 3year interval rate cases included in this analysis.
- Fixed cost revenues may be over-collected in the case where kWh sales, less DSM savings, are greater than the forecasted kWh growth, resulting in a refund for the customers under this true-up

² Ralph Cavanagh (Natural Resources Defense Council), Bill Eddie (Advocates for the West), and Nancy Hirsh (NW Energy Coalition) were absent at the beginning of the meeting. Their absence left no representatives of the NWEC stakeholder group. Hirsh arrived before lunch break, and Cavanagh participated via conference call in the afternoon. Eddie was unable to participate at all.

mechanism. At the same time, increased kWh sales will usually mean an increase in customer growth, which may require IPC to spend money for a new distribution plant and equipment. IPC is concerned about the possible scenario where they are giving a refund to customers at the same time as expending dollars in capital investment.

- What level of fixed costs, if recovered, would encourage or allow IPC to do what it wouldn't do otherwise with DSM or other programs?
- Greg Said, IPC, illustrated what happens between rate cases (see below) in the absence of a true-up mechanism. Lost fixed cost revenues from DSM could accumulate over a 10-year period unless a rate case adjusts the rates up to recover the lost fixed costs. This adjustment would change the angle of the lost revenue line down (in blue) so that future fixed cost losses are accelerated. For the sake of illustration, Said assumed a straight-line reduction, although it would likely be curved (in red).
 Anderson said that the surrogate for the blue dotted line was captured in his analysis.



Rate Impacts by Class under IRP and NWPCC Projections

Mike Youngblood, IPC, distributed a 10-page packet with rate impacts under the true-up mechanism for both IRP and NWPCC energy efficiency projections (Appendix 8) and a single sheet regarding fixed cost lost revenue per MWh by customer class (Appendix 9) prepared by Tim Tatum, IPC. Under this model, the true-up mechanism is based on forecasted sales as the method for IPC to recover fixed costs. Youngblood showed the assumptions he could change to analyze various scenarios.

Using the residential rate class, he walked participants through the model, which also included high- and low-growth scenarios to illustrate a range around the base case. The following issues were raised during the discussion (see Appendix 10 for flip chart notes):

- If energy sales grow faster than forecasted and DSM equals growth, there will be no apparent divergence from the base case.
- Although this model is not based on customer counts, increased kWh growth likely means increased
 customer growth. If so, IPC has to make capital investments for new customers. Youngblood
 commented that his numbers reflect divergence from an assumed 2% growth rate. Hypothetically, an
 increase in kWh use and an increase in the number of customers may result in a refund to customers
 and the requirement for IPC to add facility investment.
- For DSM, the percentage of class increase is still relatively small on an annual basis in the short term.
 Regular rate cases would adjust recovery so that the long-term effect wouldn't be as high as modeled.
- Trends of true-up are similar among rate classes.

Youngblood then presented a similar model of the true-up mechanism based on customer counts rather than forecasted sales. Youngblood did not provide this dynamic model as a handout but demonstrated it to the group. Appendix 11 includes one scenario based on certain input assumptions. For this analysis, he used weather-adjusted numbers, \$30.14 as the total fixed cost per MWh, and 12,549 kWh to represent the average consumption for a residential user. The high and low scenarios represent 1% increase above and decrease below that average use per customer. Again, people could chose from among a number of assumptions to see their effects. Trends were similar to those under the forecasted sales true-up mechanism although magnitudes changed. The impact over a 20-year period, all else being equal, is a slight increase to rates, which is consistent with recovery of lost fixed revenues. Youngblood commented that the customer count mechanism works better with residential and small commercial customers, while the forecasted sales approach works better for industrial and irrigation customers.

Power Supply Costs under Increased Energy Conservation

Tim Tatum, IPC, distributed a four-page handout (Appendix 12) with results from the Aurora model conducted to analyze impacts of increasing levels of DSM on power supply costs. Mike Rufo of Quantum Consulting provided IPC an assessment of residential and commercial DSM potential within the Company's service territory by 2013. For the analysis, Portfolio 11 from the Company's 2004 IRP was modified to include Quantum Consulting's estimates of achievable DSM. The original Portfolio 11 was then used as the base case in the analysis. Tatum pointed out that Northwest Power and Conservation Council (NWPCC) estimates of achievable DSM are higher because they include market transformation, tax credits, and other mechanisms necessary to achieve those numbers. The IRP only accounts for direct acquisition program savings and does not include savings attributable to the Northwest Energy Efficiency Alliance (NEEA). When the 2004 IRP DSM resources are combined with Quantum Consulting's assessment findings and IPC's share of NEEA market transformation savings, the total is greater than NWPCC estimates of achievable DSM for IPC.

IPC decided to include the higher level of DSM (excluding NEEA) into a modified portfolio to allow them to analyze impacts to energy and capacity constraints (see Appendix 13 for flip chart notes). The first sheet of the handout (Appendix 12) shows the higher level of DSM, which allows IPC to defer resources (shown in orange blocks). The deferral of these resources results in an increase in variable supply costs due to decreased market sales potential. However, the fixed cost benefit of the deferral results in net savings. The second sheet shows the impact to power supply costs, excluding fixed costs. Factoring in DSM savings, power supply costs are reduced in all years except 2007, which is when the first Combined Heat and Power (CHP) resource is deferred. The third sheet shows portfolio fixed costs comparisons, with and without DSM fixed costs, between the base case and increased DSM portfolios. In the two years with CHP deferrals (2007 and 2010), there is a net decrease in fixed costs. The yellow columns show the costs to achieve DSM. Results showing the impacts of increasing levels of DSM on power supply costs are included on the last page. By increasing levels of DSM and organizing the portfolio for deferrals, the net present value between the two portfolios from now through 2033 is \$36.3 million. This analysis indicates conservation has occurred and IPC will spend \$36 million less in resources as a result. Extra costs would be incurred to the system for the first several years, and the break-even point would occur in 2022. The analysis showed that increased DSM could reduce power supply costs in the long run, but the disincentive needs to be removed early on.

COMMISSION REPORT

The participants expressed concern that there is not enough time before the December 15 deadline given in the IPUC order to complete the investigation of the issues and draft a complete report. They decided to submit a status report instead, which IPUC staff said will be sufficient as long as it describes the group's progress and anticipated due date for the completed report. Responsibility for drafting the status report will be assigned at the next meeting.

Nancy Hirsh will talk with Bill Eddie about serving as report coordinator. Once written and compiled, drafts will be circulated to all participants, though suggested revisions from participants should be coordinated by each party (ICIP, IPC, IPUC, NWEC) before being sent back to the report coordinator. In the meantime, work group members brainstormed the following outline for the report:

- I. History—events leading up to the order and the parties involved in the work group. The IPUC volunteered to write this section
- II. What the work group did—issues raised, studies performed, mechanisms explored, assumptions made, and possible solutions detailed.
 - The outline should allow means for showing the areas of agreement as well as areas of disagreement.
- III. Conclusions and recommendations—conclusions drawn from the studies.

 This would reflect study information and perhaps respond to the four material questions discussed at this workshop (see Appendix 15).
- IV. Ancillary information—figures, tables, study details, workshop summaries, and any other attachments needed to clarify or substantiate information.

After developing the draft outline (see Appendix 14 for flip chart notes), participants raised the need to include information about performance-based ratemaking (PBR) alternatives. The order had charged the work group with looking at alternatives to promoting DSM, one being decoupling and another being PBR. IPUC staff volunteered to develop a PBR strawman that is centered on DSM for the next meeting. If there is time to deliver the strawman to IPC for analysis before the December 1 meeting, the IPUC will do so. Otherwise, analysis will be conducted before the December 13 meeting.

QUESTIONS RAISED

The following questions were developed before or during the workshop and discussed once Cavanagh was able to participate via conference call (see Appendix 15 for flip chart notes):

- Are there financial disincentives to energy conservation?
- If there are financial disincentives, where are they (nature) and what is their extent?
- Is fixed cost recovery the issue/best way to address DSM?
- How much lost revenue (recovered) will cause the company to do something otherwise?
- What other information do we need?

Question 1—Existence of Financial Disincentives

All parties agreed that lost fixed cost revenue was associated with every kWh not sold.

Question 2—Nature and Extent of Financial Disincentives

Participants generally accepted the following conclusions:

- The nature and extent of the financial disincentive depends on the frequency of rate cases and the magnitude of IPC's energy efficiency program.
- The loss/fixed margin associated with every unsold kWh is needed to recover the fixed costs set in a
 rate case. However, over the last 10 years, IPC has implemented no DSM but experienced a huge
 loss/fixed margin.
- IPC could exert huge effort on programs that don't materialize. Nor would removal of disincentives quarantee energy conservation.

Question 3—Best Approach for Addressing DSM

Participants agreed that this question couldn't be answered yet since performance-based ratemaking alternatives haven't been explored.

Question 4—Amount of Lost Revenue Recovery to Effect Change

While striving to answer this question, the following issues were raised:

• Ric Gale, IPC, talked about IPC's commitment to re-energize DSM programs from a good faith stance. But out-of-pocket expenses for DSM (the immediate need) are a bigger concern than lost

- revenue recovery at this time. If a mechanism for eliminating the financial disincentive could be implemented cleanly, the company would want to pursue it. In the meantime, IPC has made significant strides in DSM proposals and savings that can be achieved without lost revenue recovery.
- One the other hand, management does ask Darlene Nemnich, IPC, about lost revenues any time she takes a DSM program to management for funding. Lost revenues are an issue at the programmatic implementation level.
- The IPUC is concerned about allowing the company to collect fixed costs that may not be associated with DSM efforts.
- IPC may not be as concerned about lost revenues given the amount of DSM projected in the IRP, which is less than half the NWPCC's target.
- Although fuel costs, which are given to IPC as fuel recovery, can be volatile and can affect the company as adversely as lost fixed cost revenue, the approach does differ.

Question 5—Information Needs

The analyses presented today addressed some of the questions that people had. However, the need still exists for a way of determining the amount of savings resulting from DSM. In the future, monitoring and evaluation results of DSM programs may contribute to understanding the amount of fixed costs associated with DSM. Because a true-up mechanism may address some but not all concerns, participants want to see similar analyses of PBR alternatives. IPUC volunteered to develop a PBR strawman for the next meeting.

NEXT STEPS/WRAP-UP

Hayman reviewed action items to be completed before the next workshop (Appendix 16). This workshop is scheduled for December 1, 2004, from 9:30am to 3:30pm at IPC. During this meeting, participants will hear strawman presentations, discuss evaluation criteria, and develop the status report for the Commissioners. If people with action items are unable to complete them for the meeting, Hayman will notify participants that the meeting will be postponed until December 13.

APPENDIX 1—PARTICIPANTS (shading indicates work group participants unable to participate in person or by phone in workshop #3)

Name and Affiliation	Name and Affiliation
Lynn Anderson, IPUC	Laura Nelson, IPUC
Maggie Brilz, Idaho Power	Darlene Nemnich, Idaho Power
Terri Carlock, IPUC	Molly O'Leary, Industrial Customers of Idaho (sitting in for Peter Richardson)
Ralph Cavanagh, Natural Resources Defense Council	Brad Purdy, Community Action Partnership Association o Idaho
Bill Eddie, Advocates for the West	Don Reading, Ben Johnson Associates
Ric Gale, Idaho Power	Greg Said, IPC
David Hawk, J.R. Simplot Co.	David Schunke, IPUC
Nancy Hirsh, NW Energy Coalition	Tim Tatum, Idaho Power
Bart Kline, Idaho Power	Mike Youngblood, Idaho Power
Randy Lobb, IPUC	Scott Woodbury, IPUC

APPENDIX 2—AGENDA

ASSESSING FINANCIAL DISINCENTIVES AND RESOLUTION OPPORTUNITIES WORKSHOP #3

November 8, 2004 9:30am-3:30pm Auditorium East Idaho Power Corporate Headquarters Boise, Idaho

Objectives:

- 1) Continue investigating the nature and extent of financial disincentives to energy conservation programs; identify areas of agreement and any additional information needs.
- Identify criteria that workshop participants would use to evaluate the applicability/desirability of potential mechanisms to address disincentives. *Deferred*
- Brainstorm potential mechanisms to address disincentives, including additional true-up mechanisms, performance-based incentives, etc. *Deferred*

Final Agenda

Time	Topic	Process
9:15am	Coffee/Tea available in meeting room	
9:30am	Welcome/Introductions/Meeting Overview – Susan Hayman, Facilitator	Information
9:45am (We will take a morning break when it is most convenient to the group)	Action item reports: IRP, NWPCC and historical residential scenarios calculated with an interim rate case (but without a true-up mechanism) – Lynn Anderson Rate impacts by class under IRP and NWPCC projections – Mike Youngblood Potential changes in power supply costs from increased energy conservation (using Aurora model) – Tim Tatum Areas of agreement and additional information needs Are there financial disincentives? If so, what is their nature and extent? Is additional information required to assess this?	Presentations / Discussion
11:45pm	Lunch (on your own)	·
12:45pm	Mechanism Evaluation Criteria – Susan Hayman Deferred	Exercise / Discussion
1:45pm	Potential Mechanisms to Address Disincentives Deferred True-ups (different kinds?) Performance Based Incentives (different kinds?) Others?	Brainstorming exercise / Discussion
2:30pm	Next Steps, Action Items, Evaluation – Susan Hayman	Discussion
3:30pm	Adjourn	

APPENDIX 3—REVISED OPERATIONAL PROTOCOLS

041108

Workshop Series - Operational Protocol

Workshop Name: Assessing Financial Disincentives and Resolution Opportunities

Workshop Purpose:

- 1) To investigate the nature and extent of financial disincentives to investment in energy efficiency by Idaho Power Company and customers;
- 2) To investigate decoupling and performance-based ratemaking (incentives) as mechanisms to address financial disincentives (IPUC Order # 29558, 8/10/2004). Other mechanisms can be subsequently explored if the participants agree that this would be useful.

Workshop Products: A written report to the Idaho Public Utilities Commission to update the Commission on the status of the investigative workshops. This report will include a summarized assessment of:

- The nature and extent of financial disincentives to investment in energy efficiency by Idaho Power Company;
- Recommendations regarding specific decoupling and/or performance-based mechanisms that may reduce/remove these financial disincentives.
- 3) Recommendations for next steps.

Workshop Tenure: August 24 through December 15, 2004

1) Composition of Workshop Participants

While workshops will be open to the public, it is expected that participants will generally represent the Idaho Public Utilities Commission, Idaho Power Company, Northwest Energy Coalition, representatives of industrial customers, representatives of residential customers, and representatives of irrigation customers.

2) Roles & Responsibilities of Workshop Participants

- a) Be active in the discussion, be solutions-oriented, and act in "good-faith."
- b) Help others at the table to understand your interests, and actively seek to understand the interests of others.
- c) Be informed Review the previous workshop summary, the agenda and prework in advance of the next workshop.
- d) Follow-through in a timely manner with any assigned action items.
- e) Attend workshops regularly the group will not revisit decisions/discussions missed by others.
- f) Workshop Coordinators: One representative each from Idaho Power Company (Mike Youngblood), Idaho Public Utility Commission (Lynn Anderson), Northwest Energy Coalition (Bill Eddie), and industrial customers (Peter Richardson). Responsibilities include coordination with the facilitator on the workshop objectives, outcomes, agenda and process.

3) Role & Responsibilities of the Facilitator

- Manage the workshops, serve as a process coach, maintain neutrality and impartiality, and reinforce the collaborative process.
- b) Refine the objectives and outcomes for each workshop, in cooperation with the workshop coordinators. Propose a workshop agenda and appropriate processes to reach the identified

Page 1 of 1 - Operational Protocol

041108

- objectives and outcomes, and finalize this with the coordinators. The agenda, and any prework materials, will be distributed to participants at least one week prior to each workshop.
- c) Communicate with participants outside of workshops as needed.
- d) Maintain a record of workshop participants, and a summary of workshop discussions (see #6, Record Keeping).
- e) Assist in preparation/compilation of the written report to the Idaho Public Utilities Commission.

4) Analysis

Analysis needs will be identified and assigned as they emerge.

5) Decision-Making

- a) Entities with multiple representatives: While each individual participant will have input into the workshop deliberations, it is desirable that each entity represented speak with one voice in decision-making. Therefore, while numerous individuals may represent a given entity at a workshop, it is expected that one person will speak on behalf of the entity when decisions are made. Each entity should designate that person in advance. The facilitator will provide time for representatives to consult with each other as needed prior to critical decisions.
- b) Types of decisions: There are two types of decisions participants will make:
 - Workshop decisions: These decisions are related to workshop topics, process and schedule. Workshop decisions already made by the IPUC in Orders 29505 and 29558 will be honored. Decisions at the discretion of the group will be made by consensus.
 - Product decisions: These decisions are related to the findings and recommendations workshop participants will present in their written report to the IPUC on December 15, 2004. Consensus will be the goal However, if consensus cannot be reached, areas of agreement and disagreement on the findings and recommendations will be provided in the written report.

6) Record-Keeping

- a) The facilitator will arrange for notes to be taken on a laptop computer during the workshop. The distributed workshop will include key discussion points, decisions, areas of agreement and disagreement, action items, etc. They will not be a transcription of "who said what."
- b) The facilitator will be responsible for preparing the workshop summary and distributing it to participants within three business days after each workshop.
- c) The facilitator will maintain a file of all workshop summaries, handouts, and products.

7) Principles of Meeting Conduct

- a) Focus attention on the speaker (no side conversations)
- b) Be specific, but succinct, in questions and comments
- c) Participate fully, but don't dominate the discussion.
- d) Respect other's contributions, and learn from them.
- e) Challenge ideas, not people
- f) Be on time
- g) Turn cell phones, pagers or other electronic devices off or inaudible during meetings.

Page 2 of 2 - Operational Protocol

APPENDIX 4—POSTERS WITH OPERATIONAL INFORMATION

Principles of Meeting Conduct

- Focus attention on the speaker (no side conversations)
- Be specific, but succinct, in questions and comments
- 3) Participate fully, but don't dominate the discussion
- 4) Respect others' contributions, and learn from them
- 5) Challenge ideas, not people
- 6) Be on time
- 7) Turn cell phones, pagers or other electronic devices off or inaudible during meetings

Workshop Series—Purpose and Products (excerpts from Operational Protocol, adopted 9/27/04) Workshop Purpose:

- To investigate the nature and extent of financial disincentives to investment in energy efficiency by Idaho Power Company and customers;
- 2) To investigate decoupling and performance-based ratemaking (incentives) as mechanisms to address financial disincentives (IPUC Order #29558, 8/10/2004). Other mechanisms can be subsequently explored if the participants agree that this would be useful.

Workshop Products: A written report to the Idaho Public Utilities Commission to update the Commission on the status of the investigative workshops. This report will include a summarized assessment of:

- The nature and extent of financial disincentives to investment in energy efficiency by Idaho Power Company;
- Recommendations regarding specific decoupling and/or performance-based mechanisms that may reduce/remove these financial disincentives;
- 3) Recommendations for next steps.

Definitions

Demand Side Management (DSM): Management tools and actions that are designed to result in decreases or shifts in customer energy demand and/or consumption.

Performance-Based Incentives (PBI): Mechanisms that allow a utility to share and retain benefits gained from energy efficiencies, as well as provide consequences for failing to meet efficiency goals.

Decoupling: Severing the link between a utility's kWh sales and its recovery of revenues to cover fixed costs.

True-Up: A decoupling mechanism where a periodic adjustment in electric rates is used to correct for disparities between a utility's actual fixed cost recovery and its authorized fixed cost recovery.

APPENDIX 5—ANDERSON'S RECALCULATION OF FIXED COST REVENUE LOSS USING IRP Information and Three Interim Rate Cases

IPC DSM F-C Revenue Loss - IRP with 3 rate cases (REVISED 10/29/04)

		DSM Sele	cted in the 200	4 IRP (2004-	2013 Plannin	g Period)	T				
		Idah	Power IPC-E-	34-018, IRP T	echnical App	e ndix	(Nu	imbers	by IPC	9/21/	(04)
		MWn Energ	y Savings, Net c	f Free Riders	Incl Losses	Excl NEEA	P	eak Re	duction	(MW	1
	Year	Residential	Commercial	trigation	Industrial	Total MWn	Res.	Com.	log.	IN.	Total
	2005	1,070	389	5,787	9,427	16,653	0.6	0.1	2.9	1.2	4.9
	2006	2,625	1,087	11,534	18.853	34,100	1.5	0.4	5.8	2.4	10.1
	2007	4,193	1,900	17,300	28,280	51,674	2.5	0.7	8.7	3.6	15.4
	2008	5,784	2,810	23,067	37,706	69,367	3.4	1.1	11.5	4.8	20.8
	2009	7,397	3,801	28,834	47,133	87,166	4.3	1.5	14.4	6.0	26.2
	2010	9,205	4,861	34,601	56,559	105,226	5.3	1.9	17.3	7.2	31.7
	2011	11,028	5,980	40,368	65,986	123,363	6.3	2.4	20.2	8.4	37.2
	2012	12,872	7,149	46,134	75,412	141,566	7,3	2.8	23.1	9.6	42.8
ed of IRP	2013	14,734	6,359	51,901	84,839	159,833	8.3	3.3	26.0	10.8	48.3
terning Period				all	M (2004 18P)=	18.25	8.3	3.3	26.0	10.8	48.3
	Total	68,908	36,337	259,506	424,195	788,946	Pest	MW (En	esgy Pro	grama)	48.3
·	manus and and an array of the		A CANONICAL CONTRACTOR AND CONTRACTOR CONTRA		W. A. C.		Peak I	W (Den	and Res	фолзе)	75.6
formaliz. MWh	2003	4,141,393	2,932,712	1,620,931	2,325,875	11,020,911	Total	Pask MY	/ Selecte	d DSM	
Oth State Parameter	Adams.	4 694	3 204	አያር ብ	3.094	クラ紅					

	Residential	Commercial*	Imgation	Industria***	Note that the \$76/00th here are diff.
Energy Rate (\$/MWh)	51.9	30.0	32.6	21.8	for com. & indust, than on NWPCC
Variable Cost (S/MWhi)	20.7	<u> 20.3</u>	23.5	<u>18.5</u>	sheet.
Loss/MWh unsold	\$31.20	\$9.70	\$9,10	\$3.30	The losses/MWh are increased
*) Commercial rate is	a weighted a	vg. of schedules	07 & 09S ba	ased on energy use.	as result of each rate case by
(**) Ind. rate is a wgh	id, avo. of sch	s. 09 P & T and	19 S. P & T I	based on energy use	. IRP average growth per year.

		osts Not Reco			W. Hills and Address of the Control	The fixed-costs not
Year	Residential	Commercial	<u>Imigation</u>	Industrial	Total	recoverd are the produ
2005	\$33,370	\$3,775	\$52,480	\$31,109	\$120,734	of multiplying each
2006	81,905	10,548	104,959	62,215	259,627	year's energy savings i
1st rate	caso resets	rates to recove	or MWh savin	ngs through .	une 2006.	the top box by the loss/MWh unsold in the
2007	76,713	12,195	79,104	50,255	218,267	middle box (IPC ad). of
2008	128,725	21,742	131,846	83,756	366,070	Enc Hirst numbers and
2009	181,473	32,146	184,588	117,260	515,468	later years rate case e
2nd rat	e case reseti	rates to recov	er MWh savi	ngs through	June 2009.	changes). The losses
2010	90,443	17,945	79,585	54,919	242,893	are not adjusted for
2011	153,542	30,848	132,642	91,535	408,567	income taxes, cost
2012	217,329	44,322	185,690	128,146	575,487	changes, any offsettin
3rd rat	e case resets	rates to recov	er MWh savi	ngs through .	June 2012.	benefits, etc. and do n
2013	101,957	22,752	80,053	100.012	304,774	include demand charg fixed-cost revenue
9-yearTotal	\$1,065,457	5196,274	\$1,030,949	\$719,207	\$3,011,886	losses. With each rat case annual losses an
				Avg. Annual	\$334,654	reset to zero, except w 6-month rate case lag.
			WACC *		en en ener	and fixed cost losses p
			~	(2005-2013)	\$2,134,091	MWh are increased by
			Levi	elized (9-yr.)	\$319,061	IRP avg. MWh growth each class.

APPENDIX 6—ANDERSON'S RECALCULATION OF FIXED COST REVENUE LOSS USING NWPCC INFORMATION AND THREE INTERIM RATE CASES

ż	NAMPOC Draft 5th Plan - Not Reviewed By Council	In - Not Re	riewed By	- - - - - - - - - - - - - - - - - - -		张行动的 可以 加重量之事 10条,不是人的 4元之中2章 1日子90章 5	- Paci project	5 CO 10 CO	10 to	e.						
¥	Achievable, Cost-Effective DSM Potential by 2025 Northwest IPC's 20	foctive DSN No	Northwest	PCs 20-yr.	PCs	EC.				4	9	*******		-		Total 9-year
		Polentia 20-Yall	N SM	2027 2027 2027	annia MM	No.ye	\$302	2000 2000 2000 2000	2007 2008 2009 2010 2011	3003	- SSS	2010	2011	2012	2013	F.C. Rev. Loss
S.	Refrigerators		SÓ.					œ -			¥ ×			<		
R	Clothes Washers	ę	5					∢ 1			₹ }			()-		
Res	Dishwashers		Q					- 1			- 1			- u		
8	Water Heaters		8					w			u .			J		
8	II P. Water Heaters	sters	£0.					et jî								
Res	H.W. Heat Recovery	overy	ଯ					υ .			• د			> *		
R	Compact Flourescent	PROPERTY	3					∢ •			₹ 4			(*		
Res		nd.	Q					ומ			<i>n</i> L) L		
Res	Existing Space Cond	Š	8					i)			ָּׁט			1		
R		*	8													
20		Non	2					K 1			¥ ŧ					
\$	HVAC Commission	8	2					- 1			الا	7	7 03		VG	1 1 CO
	Res Total	44.8%	1,270	\$2.6	4.13	36.15. 7	51.	23	87.8	2	2 :	27.7	- 22	3 =	2.45	2:044
S	Com. Equipment newfrep	wirepl	8					> 1			> ¢			•		
8	Com HVAC, new/repl	*	50					0) į			u		
8	Com. Infrastructure, newfrepl	hew repl	2								u s			J		
8	Com, Lighting, new/repl	70	245					60			מ			•		
8	Com. Shell, new/repl.		ž.					1			3.			u		
8	Com, Equipment, retrofit	rofit	011					là			L			٠ جا		
Š	Com HVAC retroft		130					• •			• •			• •		
8	Com. Infrastructure, retrofit	retrofi	5					ט			9			,		
8	Com. Lighting, retrofil		5													
8	Com Shell retroft		2					1			ť			0		
	ACIDC power com	X	33					~		7.7	با ا		Ç	45.0	\$ 63	2 0C3
	Com. Total	\$0.0% \$0.0%	1,135	73.8	369	32.313	\$13	22 / E	25.2	2	2	5. 70 5. 70	3	2000	Š	
, Cu			90			***************************************					•	Ç	* 00	• 44	95	408
þ.	2244.175	2,8%	8	C.	0.26	2.278	S	988	3	3	3	3	- 25		2	
Σ	All Non-Alamanum	E	350					3.		,	3 4		* 02	2 6 63	1 15	E 13
	Ind. Total	12.3%	350	22.8	1.14	9,965	8	8	33	ā	200	3	3	7 0	\$	
				- 1	7.4.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 63	0	\$ P.3	£. A	9	T I	\$7.3	\$102.8	2.2	\$54.6
	Total	18.08 80.08	2,835	184.3	9.21	80,712	à			2			1		***************************************	

Idaho Power's 6.5% share is based on its current NEEA allocation, which may not represent its potential for each program or customer class.

With each rate case, annual losses are reset to zero, except with 6-month rate case lag, and fixed cost losses per MWh are increased by IRP's avg. MWh growth in each class.

are diff for com & indust. Than on IRP-selected wheel NOTE THAT THE SALVAH THE

106al 2.2%

Indust.

8%

Rez. 1.9%

BY AND GOVERNMENT

Yariable Cost

Energy Charge

\$7MVM: From IPC's 3290/04 Enc Hirst Decoupling Resort. p. 5 -- IPC, Updated Rarge 51.90 62.60 32.60 24.40 Note that the \$4.00 Note that the \$4.00

\$8.1 Avg. Annual VARCC = 7.20% \$39.0 PV 9-yr. (2005-2013) \$6.0 Levolized (9-yr.)

Summary of the November 8, 2004, Workshop

APPENDIX 7—CAVANAGH'S RESPONSE TO ANDERSON'S ANALYSES

----- Forwarded Message: -----

From: "Cavanagh, Ralph" <rcavanagh@nrdc.org>

To: "Lynn Anderson" landers@puc.state.id.us, snorth country@att.net, "Randy Lobb" <rl>dobb@puc.state.id.us>, "Brad Purdy"

| Sempurdy@hotmail.com>, "Mike Youngblood" | Sempurdy@hotmail.com</ri> <myoungblood@idahopower.com>, "Greg Said" <gsaid@idahopower.com>, "Bart Kline"
<bkline@idahopower.com>, "Ric Gale" <rgale@idahopower.com>, "Dave Schunke" <dschunk@puc.state.id.us>, "Alden Holm" <aholm@puc.state.id.us>, "David Hawk" <david.hawk@simplot.com>, "Bill Eddie" <billeddie@rmci.net>, "Scott Woodbury" <swoodbu@puc.state.id.us>, "Peter Richardson" <peter@richardsonandoleary.com>, "Darlene Nemnich" <dnemnich@idahopower.com>, "Laura Nelson" <lnelson@puc.state.id.us>, "Maggie Brilz" <mbrilz@idahopower.com>, "Terri Carlock" <tcarloc@puc.state.id.us>, "Nancy Hirsh" <nancy@nwenergy.org>, <ttatum@idahopower.com>, <dreading@mindspring.com> Subject: Comments on Lynn's Analysis

Date: Wed, 3 Nov 2004 23:32:04 +0000

COLLEAGUES:

I am grateful to Lynn for timely circulation of his revised analysis, and (after a discussion with him) offer these additional thoughts:

- 1. The NWPCC energy efficiency projections, although more aggressive than the Company's current IRP, is not by any means the upper bound of the possible; as a fraction of system electricity use, for example, the Council targets are only about half the targets that California's utilities are planning to meet (equivalent to about one percent of their systemwide retail consumption annually). I would never suggest to this group that Idaho should copy California, but neither would I want to imply that it's impossible for Idaho to OUTPERFORM California.
- 2. On the question of whether potential revenue losses from increased DSM investments are material, I think that the point is now well established even with Lynn's revised numbers (\$54.5 million over nine years sure gets my attention, and for that matter so does \$3 million). But I want to emphasize that Lynn's new, somewhat lower numbers reflect a crucial assumption with which I do not agree. As Lynn forthrightly says, his analysis assumes that every time you have a rate case, "forward-looking revenue losses from past DSM efforts are eliminated," "even though past DSM savings are assumed to persist in the future." Here is the difficulty: those persisting DSM savings continue to inflict revenue losses on the Company even after the rate case, in the sense that the unsold kWh return no fixed costs to the Company, and the Company clearly would be better off financially if those old savings disappeared instead of persisting. The only sense in which anything is "eliminated" is that each rate case resets rates based on actual consumption in the year closest to the rate case, so that the sales base for that test year incorporates the impact of previous years' energy efficiency investments in that year. But in subsequent years, if the savings persist, the Company continues to lose revenues COMPARED TO A SCENARIO UNDER WHICH THOSE SAME SAVINGS DISAPPEARED, and Lynn's analysis isn't picking those incremental losses up at all – it's disregarding them (unlike his initial analysis, which counted them). So, in my view, Lynn is understating the losses to the company from persistent savings and missing a

perfectly perverse feature of the status quo: the Company is rewarded for installing short-lived efficiency measures and penalized for finding durable savings. THIS IS ANOTHER VERY GOOD REASON TO ADOPT A TRUE-UP MECHANISM THAT ELIMINATES THE LINKAGE BETWEEN RETAIL ELECTRICITY CONSUMPTION AND IDAHO POWER'S FIXED COST RECOVERY.

----Original Message----

From: Lynn Anderson [mailto:landers@puc.state.id.us]

Sent: Wednesday, November 03, 2004 1:04 PM

To: north_country@att.net; Randy Lobb; Brad Purdy; Mike Youngblood; Greg Said; Bart Kline; Ric Gale; Dave Schunke; Alden Holm; David Hawk; Cavanagh, Ralph; Bill Eddie; Scott Woodbury; Peter Richardson; Darlene Nemnich; Laura Nelson; Maggie Brilz; Terri Carlock; Nancy Hirsh; ttatum@idahopower.com; dreading@mindspring.com

Subject: Rate Cases Effects on F-C Rev. Losses

Hello, Decoupling Workgroup,

Attached is a two-tab, two-scenario worksheet that calculates fixed-cost revenue losses assuming rate cases occur every three years. (Idaho Power's last rate case test year was 2003.) Under both scenarios, forward-looking revenue losses from past DSM efforts are eliminated (except for an assumed 6-month lag between the end of the rate case test year and rate implementation) even though past DSM savings are assumed to persist into the future. DSM efforts that occur after each rate case test year result in new fixed-cost revenue losses that accrue until the next rate case. Each rate case is assumed to result in the loss per MWh unsold increasing by the IRP-projected average MWh sales growth rate for each customer class.

The first tab shows results under Idaho Power's IRP-level of DSM (which excludes NEEA). The IRP rate-case adjusted, 9-year total fixed cost revenue loss is \$3 million compared to \$6.2 million shown in the IRP worksheet we reviewed at the September 27 workshop. The present value of the \$3 million is about \$2 million and the levelized loss is \$0.3 million per year.

The second tab shows results under Idaho Power's 6.5% share of the NWPCC-level of DSM (which includes NEEA, fuel conversions, building codes, appliance standards and other DSM for which utilities have limited, little or no control.) The NWPCC rate-case adjusted, 9-year total fixed cost revenue loss is \$54.6 million compared to \$114.2 million shown in the NWPCC worksheet we reviewed at the September 27 workshop. The present value of the \$54.6 million is about \$39 million and the levelized loss is \$6 million per year.

The analyses in both scenarios are admittedly very simplified, but fairly straightforward. I doubt that adding complexity for greater accuracy would change the results significantly. A brief recap from September's workshop: Ralph Cavanagh pointed out that adding demand-related revenue losses could increase the losses by about 10%, but I countered that accounting for income taxes would reduce them by a greater amount, and Greg Said reminded us that if lost revenues are recovered then the taxes have to also be recovered. In short, I think the two scenarios represent a low-side and a high-side of potential fixed-cost revenue losses, although the possible range is even wider.

Lynn Anderson, IPUC 208-334-0353

APPENDIX 8-MODEL OF RATE IMPACTS BY CLASS UNDER IRP AND NWPCC PROJECTIONS

Charlest						13	A September 1					Total Fixed C	Total Fixed Cost per MMH (Cleas & Subsidy)	& Subsidy)
High Growth Live Growth			Total System				The second secon	G						
17.0 (7.1)		Base Case Energy	High Growth				High Growth Scenario (Menits)	5 §2	Scenario Marris	3 1	Base Rate Class Revenue Requirement	Bert	Revenue	Low
4,110,002 4,110,		6	(2)	. 8	(1)*85 627.	E	(2)*95.62%	æ	(3) '85 6274 (8)	66)	(5)-1-/21)	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	41 05 740) 41 (221)	# (SL)
4.30.500 4.05.053 0.79% 4.05.053 0.79% 4.229.0176 4.229.0176 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0276 5.222.02.02.0277 5.222.02.02.02.02.02.02.02.02.02.02.02.02	, contract				4,124,252									
4.290.810 4.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 1.02.914 2.02.914		0367260			4,155,953	25.0								
4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.472.202 4.272.402 2.272.402 <t< td=""><td>2002</td><td>4,290,810</td><td></td><td>Ä</td><td>4,102,974</td><td></td><td>**************************************</td><td>14</td><td>E21 040 F</td><td></td><td>\$232,326,720</td><td>\$127,161,141</td><td>\$127, 851, 141</td><td>\$127,101,145</td></t<>	2002	4,290,810		Ä	4,102,974		**************************************	14	E21 040 F		\$232,326,720	\$127,161,141	\$127, 851, 141	\$127,101,145
4,505,742 4,604,105 4,205,709 1,747 2,904,105 4,205,709 1,747 2,904,104 4,205,709 1,747 2,904,104 4,205,709 2,004,104 2,204,109 1,747 2,204,104 4,104,701 2,904 4,104,7	MENN AQ. 2003	4.412,329		2	*11.612.		*****	*	C 202 & C			\$129.378 BAS	\$132,111,672	T-100 1575
4,502,514 4,721,702 4,444,372 2,031,702 2,044,372 2,104,707 1,304,204 2,104,707 <t< td=""><td>precuence 2004</td><td>4,699,282</td><td>•</td><td>4</td><td>4,292,758</td><td></td><td>10 m 10 m</td><td>\$ \$000 A</td><td>を 2000年の日本</td><td></td><td></td><td>\$132,065,789</td><td>\$108,068,181</td><td>\$128,000,448</td></t<>	precuence 2004	4,699,282	•	4	4,292,758		10 m	\$ \$000 A	を 2000年の日本			\$132,065,789	\$108,068,181	\$128,000,448
4,676,644 4,661,016 4,522,266 4,569,71 1,96% 4,712,109 1,375,710 1,35% 5251,1086,309 5137,420,055 5143,395,022 4,444,425 1,668,409 5137,420,055 5143,395,022 4,444,425 1,668,409 5137,420,055 1,64% 4,612,625	3000	4 582 514	•		6.06.1909	() () () () () () () () () ()	407.41.07.4 43.42.00.00.00.00.00.00.00.00.00.00.00.00.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 945 303		\$246 258 695	\$121,787,215	\$129,803,871	\$129,988,672
4,778,006 4,674,063 4,672,276 4,063,612 2.16% 4,061,770,109 4,771,790 4,1063 4,672,276 4,063,612 2.16% 4,061,770,010 2.16% 5,226,617,543 5,106,002,222 5,147,770,109 4,268,003 5,222,466 4,404,535 4,064,532 1.26% 5,110,550 2.14% 4,512,605 1.26% 5,226,517,543 5,143,770,109 5,445,130 4,766,702 4,863,425 1.74% 5,110,550 2.14% 4,512,607 1.25% 5,226,149,002 5,445,736 5,445,746 4,645,746 5,110,550 2.14% 4,651,607 1.25% 5,226,149,002 5,445,746 5,446,461 1.45% 5,110,550 2.14% 4,651,607 1.25% 5,226,140,102 5,445,746 5,226,141 1.45% 5,110,550 2.14% 4,651,607 1.25% 5,226,141 5,100,203,142 5,226,141 5,100,203,141 5,1	2006	4 878 S44	•		477.700		0000000 e	E 20 4	CALL CALL TO	*	\$251 000 100	\$137,430,635	\$143,350,602	\$131,770,445
4,011,700 8,100,884 4,641,871 4,000,523 1,00% 5,000,524 2,00% 5,000,524 4,000,224 4,000,524 4,000,523 1,00% 5,000,524 4,000,523 1,00% 5,000,524 4,000,524 4,000,523 1,00% 5,000,524 4,000,523 1,00% 5,000,524 4,000,524 4,000,523 1,00% 5,000,524 4,000,524 4,000,523 1,00% 5,000,524 4,000,52	2002	4,708,058			1.859.913	8	00000000000000000000000000000000000000	2 2 4	Section of the sectio	- +	10 mm	\$140,402,202	\$10,777,523	\$133,949,351
4,564,035 5,224,456 4,770,535 1,700,500 1,700,500 2,700,500 <t< td=""><td>2000</td><td>A 877.7780</td><td></td><td></td><td>4,658,512</td><td></td><td>5,000,000,000,000,000,000,000,000,000,0</td><td></td><td>3 643 643</td><td>3</td><td>5261 505 733</td><td>\$143,175,314</td><td>\$150,786,756</td><td>\$138,015,682</td></t<>	2000	A 877.7780			4,658,512		5,000,000,000,000,000,000,000,000,000,0		3 643 643	3	5261 505 733	\$143,175,314	\$150,786,756	\$138,015,682
5.064.701 5.344.513 4.786.524 4.082.459 1.33% \$270.000.009 \$148.131.539 \$157.279.700 5.199.976 5.457.405 4.044.535 4.044.636 1.057.645 1.20% \$270.000.009 \$150.200.102 \$150.200.102 \$150.000.566 \$150.200.102 \$150.000.566 \$150.200.102 \$150.200.102 \$150.000.566 \$150.200.102 \$150.000.566 \$150.000.566 \$150.200.102 \$150.000.566 \$150.	2003	4.54.035			4,730,000	- •	- BO 100 M		A 574 670	Š	\$768,149,022	\$146.673,985	\$154,000,214	\$157,784,073
\$199.975 \$457.405 \$204.053 \$200.050 \$200.050 \$1957 \$200.050 \$200.050 \$150.050.050 \$	3010	5,054,701			C74.C74		0,110,044 6 24 8 800	1 4	049. CER 4	Ä	\$270,609,019	2148, 131, 539	\$167,279,705	\$130,617,100
\$224,053 \$501,00 \$224,053 \$153,029,172 \$175,570	2011	5,139,975				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	And the second	10.00	4.688 548	-	\$275 000 568	1013 215	\$160,328,102	\$141,296,447
5,300,527 5,677,475 1,677,475 <t< td=""><td>2012</td><td>5,224,083</td><td></td><td></td><td>C C </td><td>- 1</td><td>0.010.000</td><td>K a</td><td>CAR THAT Y</td><td>يهد ند</td><td>1270 587 621</td><td>\$153,029,472</td><td>\$160,596,003</td><td>\$145,196,498</td></t<>	2012	5,224,083			C C	- 1	0.010.000	K a	CAR THAT Y	يهد ند	1270 587 621	\$153,029,472	\$160,596,003	\$145,196,498
5,300,551 5,782,786 5,023,441 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,623,347 1,45% 5,728,441 1,45% 5,728,441 1,45% 5,728,441 1,45% 5,728,441 1,45% 5,728,441 1,45% 5,728,441 1,45% 5,728,642 1,24% 5,202,144 2,206,140 3,725,74,010 <td>2013</td> <td>5,80,827</td> <td></td> <td></td> <td>0/1/1/0/0</td> <td></td> <td>A KANAMA</td> <td>5 at</td> <td>100 P</td> <td>-</td> <td>\$300 822 788</td> <td>\$155,353,016</td> <td>\$166,656,992</td> <td>214.80.81</td>	2013	5,80,827			0/1/1/0/0		A KANAMA	5 at	100 P	-	\$300 822 788	\$155,353,016	\$166,656,992	214.80.81
5.448.847 5.671,722 5.081,545 5.2274.41 1.45% 5.02.424 1.45% 5.02.424 1.45% 5.02.424 1.45% 5.02.424 1.45% 5.02.424 1.45% 5.02.424 1.45% 5.72.64 1.24% 5.72.64	2014	5,300,55			0.000	F 1	100 000 m	1000	A DED ONLY	•	5387 585 387	\$157,009,468	\$169,450,678	\$146,447,607
5.49.738 5.888.067 5.144.470 5.308.711 145% 5.723.50 175% 4.918.750 121% 5.265.084 5.852.30 1648 5.175.655.896 5.508.711 5.385.127 145% 5.808.62 1.79% 4.918.750 121% 5.209.269 5.175.659 5.708.711 5.385.127 145% 5.909.050 1.74% 5.031.540 1.15% 5.209.269 5.176.6568	2015	2.000			5.270 44.1	Ř.	500 CON 1	8 8	The state of	-	5202 214 582	TOT C40 9212	\$172.574.010	\$149,381,073
\$631,560 6,065,385 5,208,711 5,385,127 146% 5,888,522 1,374 \$031,540 1,198 5,003,225 5,198,725,019 \$,715,076 6,201,520 5,268,191 5,464,811 148% 5,920,050 1,744 5,031,540 1,19% 5,003,226 5,199,472,814 \$,726,045 6,305,466 5,328,722 5,844,235 145% 6,003,322 1,199% 5,005,456 1,19% 5,005,456 1,19% 5,005,456 1,19% 5,005,456 5,199,472,814 \$,880,485 6,410,125 5,428,489 5,700,601 1,23% 6,203,474 1,78% 5,217,595 1,25% 5,106% 5,719,606 5,719,607 1,20% 6,213,596 1,10% 5,217,595 1,20% 5,199,472,814 \$,100,2900 6,025,679 5,571,232 5,665,590 1,24% 6,431,429 1,51% 5,227,344 1,00% 5,22	2016	87.88.9				-	CACCA (C	8 6	TANK BEST	÷ +	F80 80 90 C3	\$482 NOT 8888	\$175,685,996	23.40.813
\$775,076 6.201,530 5.2681,91 5.464,801 1.45% 5.031,020 11.4% 5.031,020 11.4% 5.031,020 11.4% 5.031,020 11.4% 5.031,020 11.4% 5.031,020 11.4% 5.031,020 11.5% 5.036,450 11.5% 5.036,450 11.5% 5.036,450 11.5% 5.036,450 11.2% 6.036,450 11.2% 6	2012	5,621,660				-	5 K.W. 55				02000000	S164 705 666	\$178,725,019	\$151,825,799
5,756,052 6,005,466 5,328,722 5,544,235 1,534 6,000,352 1,124 5,005,454 1,124 5,005,455 1,124 5,005,455 1,124 5,005,455 1,124 6,005,455 1,125 5,005,455 1,125	2018	5,715,078	7	_		Marie .	2000 CE 1		1001000		and the second	C187 (NO. 920)	LIE1 740 235	\$150,571.130
5,880,489	3010	5,788,052		_	E 544 235		6,030,362	8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			K-1802 477 814	2184 736 639	\$155.288
\$560,577 6,623,970 5,456,459 5,700,601 138% 6,238,374 1,78% 5,217,095 1,40% 5,313,695 5,100% 5,113,595 5,100% 5,113,595 5,100% 5,113,595 5,100% 5,113,113,113,113,113,113,113,113,113,11	2000	5,880,483			5,603,057	1800	6,120,513	j.			100 000 000 000 000 000 000 000 000 000	2017 BOR 2019	C183 (M7.590	202 1201
6,042,900 6,025,678 5,514,459 5,778,370 136% 6,235,631 1,66% 5,273,055 1,05% 5,373,055 1,05% 5,173,05% 5170,835,914 6,122,596 6,725,900 6,725,900 1,57% 5,227,044 1,05% 5,227,044 1,05% 5,504,296 1,34% 6,227,044 5,327,044 5,327,042,050 1,34% 6,228,014 5,327,044 5,327,042,051 1,34% 6,228,014 5,327,044 5,327,042,051 1,34% 6,228,014 5,327,044 5,327,042,014 5,327,044 5,	7007	5,961,577			5,700,601	***	6.238.374		CAC'TIZ'S		Contract Contract	200 FC 7 FC	C17.80 048 777	\$158 903
6.122.596 6.725.893 5.655.890 134% 6.431,458 1.57% 5.327,344 104% 5.326,747,130 5.728,827,703 5.726,827,703 5.728,	2002	0.042.936			S,778,370	<u></u>	6,335,631	8	och exte		40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	AND 500 PM	C150 RW 014	\$150.560
6,204,296 1,34% 6,284,814 6,284,814 6,284,814 6,284,814 6,284,814	2023	8,123,558			5,855,530	ننه	6,431,453		3		Con the second	\$178.852.703		
CONTRACT TORKS	7024	6 205 960			0 934 ABO						THE COLD THE	C. 10 C - 11 C		
	2002	6,288,814	-4		6,013,513						r	4 2 7		

	Demand Si	Demand Side Management		Revenue	Recovered at To	Total Fixed Cost per M	er MWH (Class & S	Subsidy) Rate le.	Revenue Recovered at Total Fixed Cost per MWH (Class & Subsidy) Rate less DSM unrecoverd costs	rd costs	
700	Energy Savings	Fixed Costs	Base Revenue Recovered	Amount of True-Up (Base)	True-Up Percentage of Revenue Requirement (Base)	High Revenue Recovered	Amount of True Up (High)	True-Up Percentage of Revenue Requirement (High)	Low Revenue Recovered	Amount of True-Up (Low)	True-Up Percentage of Revenue Requirement (Low)
- 5	(14)	(14)*30.14	(11) - (15)	(11) - (16)	(17) / (10)	(12) - (15) (19)	(11) - (19)	(20)/(10) (21)	(13) - (15) (22)	(11) - (22) (23)	(23)/(10) (24)
2000											
2001											
2002											
Weather Adj. 2003				Ę	%00 o	\$132 111 672	(\$2 732 783)	(1.16%)	\$126,663,194	\$2,715,695	1.15%
Forecasted 2004	0	90000	\$129,376,669 \$121,306,421	\$760 368	0.32%	\$135,307,813	(\$3,242,024)	(1.34%)	\$127,440,082	\$4,625,707	1.92%
2005	25,229	ě	6132,303,421	\$1.562.978	0.63%	\$138,240,893	(\$3,453,678)	(1.40%)	\$128,405,694	\$6,381,520	2.59%
2006	51,859		\$135,224,237	\$2 407 831	%96.0	\$140,942,771	(\$3,512,116)	(1.40%)	\$129,362,614	\$8,068,041	3.21%
2007	79,891	\$2,407,831	\$135,022,624	43 294 926	1.28%	\$143,882,093	(\$3,479,801)	(1.36%)	\$130,654,431	\$9,747,861	3.80%
2008	109,325		\$137,107,000 \$138 052 040	\$4 224 265	1.61%	\$146,572,491	(\$3,396,177)	(1.30%)	\$131,791,417	\$11,384,896	4.35%
2009	140,160		#130,332,043	\$5,224,235 \$5,238,088	1.97%	\$148,788,126	(\$3,114,141)	(1.17%)	\$132,546,885	\$13,127,100	4.93%
2010	173,798		#140,433,097 #141,027,39E	\$6.202,055 \$6.204.154	2.33%	\$150,985,550	(\$2,854,011)	(1.05%)	\$133,322,948	\$14,808,591	5.47%
2011	208,838	\$6,294,134	4141,007,000	#0,204,104 #1,200,463	2,69%	\$152 935 639	(\$2,380,725)	(0.87%)	\$133,905,984	\$16,648,930	6.05%
2012	245,280	\$7,392,463	\$143,162,451	\$7,592,403 60,604,666	2,0978	\$155,000,000	(\$2.041.985)	(0.73%)	\$134,671,900	\$18,357,572	6.57%
2013	282,843	\$8,524,566	\$144,504,906	\$8,524,566	3.03%	\$158 132 427	(\$2 779,411)	(0.98%)	\$136,405,995	\$18,947,021	6.68%
2014	282,843		\$146,828,450	\$6,524,500	3.00%	6160 026 112		(1.15%)	\$137,923,042	\$19,686,426	6.84%
2015	282,843		\$149,084,902	\$8,524,556	2.90%	6164 049 444	-	(141%)	\$139,736,507	\$20,204,199	6.91%
2016	282,843		\$151,416,141	\$8,524,550	2.9270	9467 444 490		(1.63%)	\$141,530,261	\$20,771,398	7.00%
2017	282,843	\$8,524,566	\$153,777,092	\$8,524,566	7.87%	9107,141,430		(1,0394.)	\$143 301 230	\$21 404 436	7.11%
2018	282,843	\$8,524,566	\$156,181,100	\$8,524,566	2.83%	\$170,200,453		(1.6370)	644E 046 E63	\$22,050,431	7 22%
2019	282.843	\$8,524,566	\$158,572,427	\$8,524,566	2.79%	\$173,224,669	_	(2.01%)	9 140,040,000	025,000,000 005,000	7 230
0.00	282.843		\$160,948,048	\$8,524,566	2.75%	\$176,212,063	_	(2.18%)	\$146,763,580	\$22,709,034	1.33%
2002	287873		\$163 285 137	\$8,524,566	2.72%	\$179,493,014	(\$7,683,311)	(2.45%)	\$148,727,864	\$23,081,839	6/CC./
2021	202,040		\$165 628 999	\$8.524.566	2.68%	\$182,424,211	(\$8,270,646)	(5.60%)	\$150,399,378	\$23,754,187	7.47%
2022	282.843		\$167,954,502	\$8,524,566	2.64%	\$185,312,348	(\$8,833,280)	(2.74%)	\$152,035,579	\$24,443,490	7.58%
2024											
2025											

THE STATE OF THE S	18T	Total System	ľ		4spi	Idabo Jurisdictional Energy 94.28%	Energy	X471X			Total Fred C	Total Fixed Cost per MWH (Class & Subsidy)	Consens 4
		Argh Grown Services Communication	Low Growth Stenario	Bare Care Energy (WWH)	Man and a second	High Growth Scenario (MWN)	Grand Reference	Low Growth Scenario (MWH)	i get	Base Rate Class Revenue Requirement	Reference	High Revienue	Low
E .	=	(2)	(3)	£.7 4 28%	(2)	(Z)*94.28*5	6	(3) '94 28% (8)	E	(10)* 1+(5)	(4)*8 28 (11)	(8)°8.29 (72)	(8)*8.29
3000	3,315,897			3,178,335	A 73%								
1000	3,465,296			3,267,193	4.51%								
2002	3,420,879	3		3,225,315	(%82°L)		14 14 14			AND RAIL DAY	A27 245 RG7	\$27,286,897	\$27.286.897
Wester Adj 2003	3,491,588	3,491,588	3,491,588	3,291,962	207	3,291,982		779,000			FEE BOR DC.	CZ3 489 (37	\$27.656.602
Forecasted 2004	3,845,464	3,777,139	3,537,754	3,437,051	1000000	3,535,494	Ž	3,335,508		2000 (000) (000) (000)	TO OUR OUT	£21 0H5 11R	\$28,389,150
2005	3,800,328	3,976,291	3,601,433	3,683,072	4.25%	3,740,975	e P	3,423,832	60 N	Carlo April Dario	TOD BAT CAN	120 800 CEX	\$29 088 143
2002	3,003,811	4,159,117	3,720,645	3,708,924	3.51%	3,030,407	4	3,508,133	0	As British Carlot	**********	CT ONS 874	420.823(680
2007	4,067,539	4,337,038	3,814,853	3,835,007	でなっ	4,089,144	1 X X	3,596,785	7. O. S.	505, 858, DC14	100 COO CO	AND POLYT	100 DK 20
2008	4,206,342	4,516,237	3,914,461	3,965,781	3.40	076 BAC	ू भ	3,690,690	261%	V1.400,00018	900 (900) 900	POL ONG SEC	431.283.050
5003	4,339,800	4.694,460	4,011,631	4,091,703	金子の	4,426,089	8	3,782,4%	\$ 1 2 2 1	\$161,008,204	AND REGION	STR OLD RAN	006 810 523
2010	4,467,278	4,862,165	4,100,163	4,211,894	容易い	4,584,206		3,868,595	Z 228%	507 SEV COLS	200 A 10 TO A	STORES SON	20.000
2011	050°765°7	5,030,720	SE 38	4,331,456	284	4,743,125	1 TO 1	3,956,073	8	90000 Per 100 Lin	500 F 600 414	**************************************	**************************************
2012	4,721,005	5,196,714	4,298,601	4,451,115	2 76%	4,901,515	3.74	4,043,451	Ž.	\$175,152,194	300 CTG CES	550 FBC 135	534 257 147
2013	4.849.664	5,387,576	4,382,045	4,572,400	273%	5,040,723	23.5	# 131,533	\$ 10 N	\$178,3K(0,044	418 000 000		15 K
2014	4,975,937	5,532,967	4,472,580	4,691,474	260%	5,216,670	5	4,216,883	ZOZ	STORTON STORY	C. 100 000 7.30	180 080	\$35 688,109
2015	5,102,926	5,701,109	4,565,089	4,811,203	2.55%	5,375,190	Z	200 A		600 1 70 100 10 600 000 100 10	CAN COO 7 159	\$45 G18 759	\$36,436,706
2016	5,232,780	5,873,754	4,660,846	4,833,615	2 7	5,537,985	388	O. 100 A.	5 1	0.000 0.000	000.000.000	\$47.285.22D	\$37.171.223
2017	8,343,632	9,044,709	4,754,802	8,057,005	16 C	5,539, tel	Ž.	4,482,381		Service Const	KALD OPER RUIT	Les 646 577	\$37.944.854
2018	5,496,151	8,222,895		5,181,949	THE N	5,869,949	7 7 7	4,5/6,23		**************************************	444 AMS 129	\$50,033,017	5 38 709 38B
2019	5,628,971	6,400,034	4,961,569	5,307,175	Š.	6,034,159	13.45% 14.05%	A 500 A		THE PROPERTY OF THE	CAE MED 746	\$51.412.45B	\$20,469,739
2020	5,782,721	8,578,487		5,433,270	2 28%	6,200,524	2.76%	ではずのなが、中		***************************************		\$52,782,725	\$40,208,053
2021	5,095,656	6,751,767	5,143,005	8,659,746	である	B 1985 183	2.67%	Take Steal of	200	100 0 A 100 100 100 100 100 100 100 100	ENT COT LT R	CES 185 KAS	\$41 010 343
2022	6,032,810	6,938,385	5,245,688	5,667,928	231%	6,541,733	2.76%	4,945,952	808	277.3220.300	101 101 101 101 101 101 101 101 101 101	200 000 000	\$41.810.328
2023	6,168,940	7,125,303	5,348,219	5,818,276	100 K	6,717,985	2.00%	2/4/2/0°0	6	0.000 1 (4.1 to 10.000)	enting to or a	The state of the state of	
2024	1,907,941			5,947,330	2 25%					164 HTD 4625	SSX1.0-15.3344		
											CONTRACTOR OF THE PARTY OF THE		

Eliment Elim		DemandS	Demand Side Management		Revenue	Revenue Recovered at 1048 Pitted Cost per arten (valse a subset)) han the con-	M Pixed Cost pr	E MAN (CHOS)	tion in the second seco			
(14) (15) (15) (11) (15) (17) (15) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (17) (19) (19) (19) (19) (19) (19) (19) (19	3	Energy Savings (ARWIT)	President of the control of the cont	Base Revenue Recovered	Amount of True-Up (Base)	True-Up Percentage of Revenue Requirement (Base)	High Revenue Recovered	Amount of True-Up (Nigh)	Trus-Up Percentage of Revenue Requirement (High)	Low Revenue Recovered	Amount of True-Up (Low)	True-Up Percentage of Revenue Requirement (Low)
0 SO SSZ-459, 137 (SSP-1294) (B.737%) SZZ-658-002 22-426 \$185,845 \$78,545 \$185,945 0.13% \$20,899,173 (\$1,199,665) (\$247%) \$27,658-002 46.253 \$383,511 \$20,398,112 \$383,511 \$20,398,112 \$383,512 \$383,511 \$20,398,112 \$383,511 \$20,398,112 \$383,511 \$20,398,112 \$383,614 \$20,398,112 \$383,514 \$20,398,112 \$383,514 \$20,398,112 \$383,514 \$20,398,120 \$383,718 \$31,006,112 \$31,006,11	· · · · · · · · · · · · · · · · · · ·	(1 4)	(1478.29	(21)-(11)	(11) - (15)	417) / (10) (18)	(12) - (15) (19)	(11) - (19) (20)	(20)K10} (21)	(13) - (15)	(11) - (22)	(23W10)
0 \$0 \$0.00% \$29,89,137 \$(500,209) \$(57.3%) \$27,556,802 46,253 \$186,945 \$200,23.64 \$185,445 \$200,23.64 \$185,445 \$11,100,20%) \$29,89,137 \$(1119,90%) \$28,20,20.20 71,482 \$392,699 \$31,206,762 \$892,699 \$33,12,875 \$15,14,614) \$10,00%) \$29,120,20 71,482 \$392,699 \$21,206,702 \$892,699 \$33,12,697 \$15,14,614) \$10,00%) \$29,20,20 98,112 \$613,609 \$21,206,702 \$892,699 \$21,206,702 \$10,00%) \$29,405,409 \$10,40% \$20,206,209 126,974 \$1,001,614 \$21,201,614 \$10,700 \$25,603,509 \$10,00% \$25,603,509 \$10,00% \$25,603,209 \$10,00% \$25,603,209 \$10,00% \$20,700 \$10,00% \$20,200,209 \$10,00% \$20,700 \$10,00% \$20,700 \$10,00% \$20,700 \$10,00% \$20,700 \$10,00% \$20,700 \$10,00% \$20,700 \$20,700 \$20,700 \$20,700 \$20,700 \$20	8 5											
0 \$0 \$0 \$00% \$22,499 (3.73%) \$27,556,890 \$27,556,890 22,426 \$186,546 \$236,521,653 \$186,546 \$186,546 \$11,199,695 (0.94%) \$27,556,890 46,253 \$383,511 \$20,562,546 \$20,562,546 \$20,562,547 \$20,100 (0.94%) \$22,20,20 77,482 \$582,69 \$11,206,72 \$52,102,00 \$20,100	ğ	ž.		- 17								
2.2.426 \$105,945 \$20,205,045 \$105,945	her Adj. 2003			i	5	, A. C.	121 0KB 0K3	(862 059)		\$27,656,802	\$842,038	0.62%
42.54 \$380,511 \$287,123.066 \$1370,028 \$19,990 \$22,704,632 \$20,786,51 \$20,786,52 \$20,776,52 \$20,776,52 \$20,776,52 \$20,786,52 \$20,776,52	scassed 2004				30 ************************************	**************************************	STO, 899, 173	(\$20,691,18)		\$28,203,206	\$1,506,303,12	101
71,482 5592,699 531,205,702 5502,699 0.39% 533,312,975 (51,514,514) (10,00%) 529,230,380 128,144 51,045,699 532,290,280 5413,508 0.65% 534,509,332 (51,625,529) (1,07%) 529,736,246 5913,09 51,301,614 51,045,699 51,301,614 0.79% 535,736,332 (51,624,407) (1,07%) 530,377,020 128,144 51,045,699 534,345,925 51,568,909 0.92% 537,739,332 (51,624,407) (1,05%) 530,377,020 129,734 126,244 52,136,041 533,736,732 (51,624,407) (1,05%) 530,775,347 125,744 52,136,041 537,736,332 (51,624,407) (1,05%) 530,775,347 125,744 52,136,041 537,736,732 (51,624,407) (1,05%) 530,775,347 125,744 52,136,041 537,736,732 (51,624,407) (1,05%) 530,775,347 530,775,347 52,736,041 537,736,732 (51,624,407) (1,05%) 530,775,347 530,775,347 52,136,041 537,736,732 (51,624,407) (1,05%) 530,736,817 530,775,347 52,136,041 537,736,732 (51,624,407) (1,05%) 530,736,817 530,736,817 530,736,736 (51,624,407) (1,05%) 530,736,817 530,736,817 530,736,736 (51,624,407) (1,05%) 530,736,817 530,736,817 530,736,736 (51,624,407) (1,05%) 530,736,817 530,736,81	8 3	87 T		entrated and	5383.511	0.36%	\$32,123,056	(\$1,370,029)		\$28,704,632	\$2,046,395	£9.
96.112 \$813.508 \$15.0% \$24,608,339 \$18,608,549 \$1,04% \$29,788,246 126.144 \$1,045,699 \$813.08 0.65% \$35,653,563 \$1,726,699 \$1,07% \$30,377,020 126.144 \$1,045,699 \$10,67% \$20,708,931 \$1,726,699 \$1,07% \$30,775,347 126.144 \$1,568,609 \$34,345,826 \$1,301,614 \$0.79% \$20,708,931 \$1,726,463 \$1,007% \$30,775,347 186.16 \$1,647,626 \$1,568,009 \$23,776,332 \$1,847,467 \$1,009% \$30,775,347 \$21,726,463 \$1,009% \$30,775,347 \$21,726,463 \$1,009% \$30,775,347 \$21,236,041 \$1,176 \$24,336,776 \$21,236,041 \$1,176 \$24,336,776 \$21,236,176 \$21,236,041	8 9	46.600		C41 205 762	\$592,699	3.60° 0	\$33,312,975	(\$1,514,514)		\$29,230,380	\$2,568,101	170%
126,144 \$1,046,699 \$32,890.864 \$1,045,839 0.665% \$35,653.553 (\$1726,663) (1.07%) \$30,317,020 126,144 \$1,001,614 \$33,621.864 \$1,201.614 0.77% \$36,706.831 (\$1726,663) (1.00%) \$30,775,347 189,216 \$1,568,900 \$34,7676 \$1,569,900 0.92% \$37,799,332 (\$1,844,497) (1.08%) \$31,678,811 189,216 \$1,568,900 \$34,7674 \$2,136,041 \$33,621.864 \$21,360,041 \$33,671.67% \$21,360,041 \$33,671.67% \$21,360,041 \$33,671.67% \$21,360,041 \$33,789,332 \$21,360,041 \$33,671.67% \$21,360,041 \$33,776,774 \$2,136,041 \$1,13% \$34,743,047 (\$2,247,759) (1.08%) \$32,137,106 \$32,136,041 \$33,776,774 \$2,136,041 \$1,13% \$34,743,047 (\$2,247,759) (1.08%) \$33,637,837 \$33,637,837 \$34,743,047 (\$2,247,749) (1.08%) \$33,637,837 \$33,637,837 \$34,743,047 (\$2,247,749) (1.08%) \$33,637,837 \$33,637,837 \$34,743,047 (\$2,247,749) (1.08%) \$33,637,749 \$32,136,041 \$33,736,041 \$33,736,041 \$33,736,041 \$33,736,041 \$33,736,041 \$33,736,041 \$34,743	ÀŠ	104. \ C** 60		C92 690 CF2	\$813.508	0.52%	\$34,508,333	(51,625,540)		\$29,788,246	12 PE 25	1,00%
166,979 \$1,001,614 \$33,627,864 \$1,201,614 0.79% \$26,706,931 \$17,865,463 (1.09%) \$30,775,347 \$189,216 \$1,568,009 \$34,745,826 \$1,201,614 0.79% \$37,759,332 \$15,644,497 (1.09%) \$31,233,389 \$31,233,399 \$	2	THE DECT		S20 RR0 554	\$1,045,939	0.65%	\$35,653,553	(\$4,726,659)	(35.075)	\$30,317,020	53,609,874	2.24%
199216 \$1,568,909 \$34,345,825 \$1,568,909 0.92% \$37,796,332 \$15,644,497) \$10.06% \$31,233,389 \$21,234,489 \$21,568,909 0.92% \$33,736,725 \$15,644,497) \$10.06% \$31,678,111 \$21,546,444 \$21,546	ē, i	107. 104.		C 3 R 3 4 R 6d	\$1.301.614	79%	535,708,931	(\$1,785,463)		\$30,775,347	\$4,148,121	2.50%
227.854 \$1,947,025 \$23,059,182 \$1,847,626 \$1,059; \$23,780,774 \$2126,041 \$1,19% \$23,780,776 \$1,19% \$23,780,774 \$2136,041 \$1,19% \$23,780,776 \$1,19% \$23,780,774 \$2136,041 \$1,19% \$21,18,728 \$12,218,794 \$1,105% \$23,121,105 \$22,136,041 \$22,136,041 \$22,136,041 \$22,136,041 \$22,136,041 \$23,780,776 \$2,136,041 \$1,13% \$24,243,047 \$23,876,035 \$1,148% \$21,36,041 \$23,136,041 \$23		# 14 COO.		STA SAS ACT	S1 558 909	\$ 28.0	\$37,759,332	(\$1,844,497)		\$31,233,389	24,081,447	2.75%
257.614 \$2.136.041 \$38,776.774 \$2.136.041 1.19% \$39,625,600 \$1591.704) (1.05%) \$32.121.105 \$257.614 \$2.136.041 1.19% \$41.118.728 (\$2.218.759) (1.20%) \$32.128.875 \$257.614 \$22.136.041 \$38,776.728 \$21.36.047 (1.18% \$42.430.047 (\$2.240.02%) (1.20%) \$32.62.088.875 \$257.614 \$22.136.041 \$38,776.772 \$2.136.041 1.10% \$43,782.739 (1.20%) \$33.620.089 \$23.136.041 \$38,776.772 \$2.136.041 1.10% \$43,782.739 (1.20%) \$34,782.739 (1.20%) \$33.620.089 \$2.136.041 \$22.136.041 \$38,776.772 \$2.136.041 1.00% \$44,782.739.041 (1.74%) \$35.636.613 \$35.6373.347 \$257.614 \$22.136.041 \$44,799.998 \$22.136.041 1.00% \$44,276.689 (1.20%) \$34,776.732 (1.20%		21 7 80 C		£25,059,182	\$1.847.828	1.05%	\$18,799,726	(\$1,888,710)		\$31,670,811	\$5,228,197	2.96%
257.614 \$2,136.041 \$38,7758.928 \$2,136,041 1,13% \$41,118,728 (\$2,218,759) (1,20%) \$32,88,876 \$25,7614 \$2,136,041 \$38,7758.679 \$2,136,041 1,13% \$42,430,047 (\$2,540,32%) (1,20%) \$33,632.089 \$23,630,47 (\$2,136,041 \$38,771,672 \$2,136,041 1,10% \$43,782,718 (\$2,218,503) (1,26%) \$33,632.089 \$23,500,667 \$257,614 \$22,136,041 \$32,136,041 1,10% \$43,782,718 (\$2,218,504) (1,74%) \$35,636,102 \$257,614 \$22,136,041 \$40,890,762 \$2,136,041 1,02% \$43,7896,878 (\$3,349,739) (1,88%) \$35,637,347 \$257,614 \$2,136,041 \$44,704 \$2,136,041 1,02% \$43,606,889 (\$3,447,323) (1,98%) \$33,637,347 \$257,614 \$2,136,041 \$43,963,32% \$21,36,041 0,89% \$52,136,041 (\$4,447,323) (2,06%) \$33,677,371 \$257,614 \$2,136,041 \$46,090,368 \$2,136,041 0,89% \$53,766,848 (\$5,340,439) (1,23%) \$33,674,287 \$33,674	× 5	******		C36, 776, 774	52 136 041	1.19%	\$30,625,609	(\$1,912,794)	(%, 60 °E)	522, 121, 106	\$6,701,709	377%
257,614 \$2,130,041 \$37,750,679 \$2,135,041 1,13% \$42,433,047 \$5,540,33% \$13,4% \$53,562,069 \$24,504 \$257,614 \$22,136,041 \$38,772,0679 \$2,136,041 1,10% \$43,782,719 \$52,835,05 \$14,69% \$24,300,677 \$257,614 \$22,136,041 \$38,772,673 \$1,05% \$45,119,1179 \$13,183,25% \$10,00% \$25,036,102 \$257,614 \$22,136,041 \$34,742,779 \$2,136,041 1,05% \$46,510,53% \$13,543,734 \$1,74% \$25,604 \$2,136,041 1,05% \$46,510,53% \$13,543,734 \$1,74% \$25,604 \$2,136,041 1,00% \$44,205,67% \$1,66% \$21,36,041 1,00% \$44,205,67% \$1,66% \$21,36,041 1,00% \$257,614 \$2,136,041 \$24,512,57% \$1,66% \$21,36,041 1,00% \$257,614 \$2,136,041 \$24,512,57% \$1,66% \$21,36,041 0,09% \$25,046,684 \$1,644,732 \$1,23%	n :	10.107 10.107		£34,763,978	52 138 Det	110%	\$41,118,728	(\$2,218,759)	(120%)	\$32,828,876	\$8,071,093	3.20%
267,014 \$2,136,041 \$38,771.672 \$2,136,041 1.10% \$43,782,716 \$52,875,005\$ (1.48%) \$34,300,667 \$257,614 \$22,136,041 \$38,771.672 \$2,136,041 1.10% \$43,782,716 \$3,43,100,10 \$35,035,102 \$257,614 \$22,136,041 \$34,742,779 \$2,136,041 1.02% \$45,119,1179 \$35,337,734 \$35,337,734 \$35,337,347 \$35,336,041 1.02% \$46,510,536 \$35,337,734 \$35,337,337 \$36,573,347 \$35,136,041 \$42,914,704 \$2,136,041 1.02% \$49,276,415 \$44,275,677 (1.68%) \$36,573,347 \$35,27,694 \$2,136,041 \$43,042,326,041 1.00% \$49,276,415 \$44,470,425,670 (1.68%) \$36,737,694 \$37,327,694 \$257,614 \$2,136,041 \$45,090,368 \$2,136,041 0.98% \$55,065,848 \$35,040,439 (12,33%) \$39,674,267 \$35,047,267 \$3	4 15	A10,703		6-17 75.0 6.79	120 PM CA	200	\$42,433,047	(\$2,540,32%)	(4.34%)	\$33,552,068	28,040,652	3,35%
257,614 \$2,136,041 \$38,734,779 \$2,136,041 \$1,07% \$45,119,1179 \$35,108,359 \$1,000% \$35,035,102 \$257,614 \$22,136,041 \$398,734,779 \$2,136,041 \$1,05% \$46,510,536 \$35,31,734 \$1,74% \$35,608,613 \$257,614 \$2,136,041 \$41,098,090 \$2,136,041 \$1,00% \$49,206,979 \$42,25,670 \$1,06% \$33,673,347 \$257,614 \$2,136,041 \$42,014,704 \$2,136,041 \$1,00% \$49,276,415 \$44,225,670 \$1,06% \$33,673,747 \$257,614 \$2,136,041 \$45,096,320 \$2,136,041 \$0.98% \$50,096,88 \$2,136,041 \$1,00% \$25,040,439 \$1,00% \$35,096,89 \$2,136,041 \$257,614 \$2,136,041 \$46,090,368 \$2,136,041 \$0.98% \$50,066,848 \$15,040,439 \$1,033% \$39,674,267 \$257,614 \$2,136,041 \$46,090,368 \$2,136,041 \$0.98% \$50,066,848 \$15,040,439 \$1,033% \$39,674,267 \$257,614 \$2,136,041 \$46,090,368 \$2,136,041 \$0.98% \$25,066,848 \$15,040,439 \$1,033% \$39,674,267 \$39,674,267 \$30,074,275 \$30,074,275	010	4.0.70.3		# 10,000 , 100 # 10,000 , 100 # 10,000 , 100	100000000000000000000000000000000000000	i ž	\$43 782 718	(\$2,875,005)		534,300,667	\$5,607,046	3.40%
257.614 \$2.136,041 \$40,830,762 \$2,136,041 1.05% \$46,510,536 \$53.543,734 (1.74%) \$35,608,613 \$257,614 \$22,136,041 \$40,830,762 \$2,136,041 1.02% \$47,896,876 \$53.543,734 (1.66%) \$36,573,347 \$257,614 \$2,136,041 \$41,904 \$2,136,041 1.00% \$49,276,415 \$44,225,670 (1.66%) \$37,327,696 \$257,614 \$2,136,041 \$43,063,320 \$2,136,041 0.08% \$50,646,664 \$44,647,323 (2.06%) \$38,674,302 \$257,614 \$2,136,041 \$45,026,136,541 0.08% \$52,136,041 0.08% \$53,065,848 (\$5,340,439) (2.33%) \$39,674,267 \$257,614 \$2,136,041 \$46,090,368 \$2,136,041 0.08% \$53,065,848 (\$5,340,439) (2.33%) \$39,674,267	016	257,614		A 10.1 17.000	42 13C D4	* D7%	\$45 119 179	183,183,359)		\$35,035,182	\$6,655,638	3,47%
257.614 \$2.136.041 \$40,830,752 \$2.136,041 1.02% \$47,896,979 (\$3891,639) (\$68%) \$356,573,347 257,644 \$2.136,041 \$41,689,098 \$2.136,041 1.02% \$47,896,979 (\$3891,639) (\$68%) \$356,573,347 257,614 \$2,136,041 \$42,047,323 (\$106%) \$321,050,041 \$257,614 \$2,136,041 \$45,090,350 \$2.136,041 0.09% \$52,105,694 (\$4,942,5,670) (\$106%) \$386,674,302 257,814 \$2,136,041 \$46,090,368 \$2,136,041 0.09% \$53,066,848 (\$55,340,439) (\$1,33%) \$396,674,267	515	257,614		カー・オカンカラン	1000	2 3 4 3 4	SECOND SECOND	Carry Car		535,808,613	57, 158, 180	3,51%
257.614 \$2,136,041 \$41,098,090 \$2,136,041 1,00% \$49,276,415 (\$4,225,676) (1,98%) \$37,327,899 \$257,814 \$2,136,041 \$42,914,704 \$2,136,041 1,00% \$49,276,415 (\$4,225,676) (1,98%) \$38,070,011 \$257,814 \$2,136,041 \$45,090,350 \$2,136,041 0,98% \$52,105,591 (\$4,942,324) (\$2,138) \$38,674,302 \$257,814 \$2,136,041 \$46,090,369 \$2,136,041 0,98% \$53,066,848 (\$5,340,439) (\$2,33%) \$39,674,267	018	4.0.782		\$40,830,752	52.1.55.051	* CD' 1	0.47 BOR GER	JAN SET ROW		\$36,573,347	197,101,79	3,56%
257,814 \$2,136,041 \$42,914,704 \$2,138,041 1,00% \$48,219.413 13,043 13,0	919	257,614		841,969,098	\$2,125,UM	1.02%	0.000000 Land	(And Take et		447 207 AGA	\$7,723.047	3,50
257.614 \$2,136.041 \$43.963.320 \$2,136,041 0.88% \$50,046,664 (34.943,334) (2.02%) 3-0,07,007,007,007,007,007,007,007,007,00	020	257.614		\$42,914,70E	\$2.1% B1	% CO'-	549,276,410			130 020 BES	CAE PCO RS	3.67%
257,814 \$2,136,041 \$45,028,156 \$2,136,041 0.95% \$52,105,591 (\$4.943,334) (3.23%) \$46,040,4367 \$2,136,041 0.93% \$53,565,849 (\$5,340,439) (2.33%) \$30,674,267	123	257,614		\$43,963,320	\$2,138,121	%B6.0	550,646,003	(444.044, 344)		CUC PLD GOV	CH 287 AD5	3,078
287.814 \$2,135.041 \$46,090,358 \$2,136,041 0,93% \$53,866,848 (\$5,341,439) (2,33%) \$34,547	022	257,614		\$45,028,156	\$2,136,041	0.95%	\$52,105,591	(\$4,943,994)		440,044,044	CC + 538 04	20 A
455	623	257.614		\$46,090,368	52 138, Par	%65 O	150,500,000	\$5,340,438)		338,574,657	90,004,144	•
	2024											

							Z	INDUSTRIAL					
	Tot	Total System			dah	Idaho Jurisdictional Energy \$8.64%	al Energy	## 64%			Total Fixed Co	Total Fixed Cost per NWM (Clark & Subsidy)	& Subsidy)
2	Bass Cores	High Growth Scenario	Low Growth Scenario	Base Case Energy	Bess Growth Rate	High Growth Scenario (WWH)	High Growth Rate	Low Growth Scenario (MWW)	Cowdth	Base Rate Class Revenue Requirement	Baso	High Revenue	Low Revenue
						1000 B		13)*88 BJW		(10)* 1*(5)	(4)*2.44	(8)*2.44	A 2.48
	100°	Ð	Đ	: : : : :	(2)	<u> </u>	(1)	(9)	Ē	(10)	- Sellen Sellen Sellen Sellen	Fig.	Ē
300	2,191,471			1,842,523	1.45%								
100	2,290,638			2,028,652	4.00								
2002	2,156,428			1,911,461	(5.73%)	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		**************************************	** 825 A31	でおり、最初の一般を	\$4 825 531
Weather Adj. 2003	2,234,497	2,234,49F	2,274,457	1,980,080,1	162%	1,980,082		1 590 002		400 cm cm	24 080 40E	020,000,23	S.4 750 019
Forecasiod 2004	2,295,848	2,407,973	2,204,069	2,035,043	35.1.2	2, 134, 431	7.75%	1,953,694		\$50.27 U.S.S.	24 000 44 24 400 446	\$5.457.455	A. 815.55
3006	2,373,974	2,527,062	2,229,605	2,157,04	3.50%	2,239,992	4.85% 35.00%	1,976,530	1.17%	200, 200, 196 100, 200, 196	44, 104,040	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$4.005.504
2006	2,452,481	2,647,681	2,271,482	2,173,623	学 石石	2,346,906	また。	2.012.445	× -	162,340,363	300 (300) 000 000 000 000	344 LCC 04	CS.008 160
2002	2,533,350	2,787,939	2,319,017	2,245,566	3.30%	2,453,506		2,055,590	38 38 38 38	SOC. 284, 918	0000 m 200000	300° 110°00°	ACC 100 00
2008	2,608,959	2,880,633	2,360,546	2,312,585	%.88.E	2,563,397	4 4 4 4	2,095,051	-	545 CLT 1995	1 4 4 4 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2000	2,660,932		2,408,071	2,379,042	2.87%	2,651,092	8 8 8	2,134,518		\$58,120,638	267,007,00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EK 244 738
2010	2,765,009		2,456,588	2,450,908	30%	2,755,239	3.50%	2,180,182	2.14%	\$70,178,652	20,317,327	00 1 3 5 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CEC 4040
150	2,845,845	3,725,381		2.572.552	292%	2,856,953	\$77%	25.35.4	5 0 0 0 1	\$72,230,949	2000	**************************************	AN ASSESSED
202	2,924,852		2,552,081	2,692,594	意识	2,961,437	東のお	2,271,033	2000 E	\$74,235,004	CACACACACACACACACACACACACACACACACACACA	67, K. C. C. C.	60, 844, Da7
2013	3,006,130	3,457,752	2,613,463	2,663,752	274%	3.064.914	3.48%	2,316,577	\$.	\$76,273,159	0.00 0.00 0.00 0.00 0.00 0.00	20 20 20 20 20 20 20 20 20 20 20 20 20 2	AND CHE SE
2014	3,000,500	3,578,065	2,606,103	2,737,651	27.7	3,171,603	3.49%	2,365,011	•	\$78,200,172	00 00 00 00 00 00 00 00 00 00 00 00 00	1000, 1000, 100 1000, 1000, 100	15 H.
2015	3,171,259	3,696,226	2,720,482	2,811,006	269%	3,376,341	S S S	24-11-450		5,40,489,641	FLG CAU CA	28.28.E85	\$5 968 BO5
2016	3,253,963			2,884,318	\$ 10 ×	3,381,651	\$ 14 10 10 10 10 10 10 10 10 10 10 10 10 10	20,80		CONTRACTOR	197 OF TX	\$8 808 426	56,110,421
É	3,338,927			2,065,630	ê G	3,492,251	E S	Carry Carry		4.88 D # 4 R 7 %	57 305 370	\$8,761,402	\$6,233,606
2018	3,424,409			3,035,402	7.2% 1.2%	1000 1	\$1.75 \$1.75	2,000,000 9,806,666		250,000,004 250,000,004	57,578,438	\$9,043,802	20, 200 120 20, 200 120
2019	3,509,178	•		3 1 1 2 2 1	2 7 7			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TCO 1 2 1 POST	ST 789 485	\$9,322,387	\$6,472,767
2020	3,597,642	-		3,189,048	2.52%	3.826,338	E i	107.000 X		CHARGE CHO	\$7,950,251	\$9,004,290	\$6,598,355
2021	3,800,754				200	State of the state	8 30 5 6	# 100 E 4		404,000,1%	457 734 82	59,907,729	56,737,172
2022	3,782,050					2000.00	Š į	1, 100, 240		£20 340 XII	50.367.538	\$10,197,537	\$6,865,110
2023	3,674,569	4,721,946	CONTROL OF	3,434,424	S I	4,183,040	2	200 C C C C C C C C C C C C C C C C C C		\$700 670 57%	\$08.585.85		
1502	3,986,376			2000	£ 1					\$103,028,271	\$8,700,419		
2025	4,059,270			A 0.86.14.3	e N					•			

Fixed Costs		Demand Si	Demand Side Management	THE PROPERTY OF THE PROPERTY O	Revenue	Revenue Recovered at Total Fixed Cost per MWH (Class & Subsidy) Rate less DSM unrecoverd costs	fotal Fixed Cost per N	er MWH (Class	1 Subsidy) Rate	less DSM unre	coverd costs	
(14) (15) (16) (11) (16) (17) / (10) (12) (13) (13) (20) (10) (13) (15) (15) (17) (19) (19) (19) (19) (19) (19) (19) (19	Year	Energy Savings (WWH)	Flued Costs Unrecovered	Base Revenue Recovered	Amount of True-Up (Base)	True-Up Percentage of Revenue Requirement (Base)	High Revenue Recovered	Amount of True-Up (High)	True-Up Percentage of Revenue Requirement (High)	Low Revenue Recovered	Amount of True-Up (Low)	True-Up Percentage of Revenue Requirement (Low)
0 50 54,988,125 50 0.00% \$5,200,270 (5242,146) (6.42%) \$4,759,919 \$440,351 19,622 \$41,807 \$5,079,038 \$47,807 \$6,675 \$1,622 \$4,759,919 \$440,351 39,245 \$86,615 \$1,570 \$6,622,330 \$1,622 \$4,602,898 \$888,998 39,245 \$86,617 \$1,674,22 \$1,674,23 \$1,117,24 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,24 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,22 \$1,674,24 \$1,674,24 \$1,674,24	A Research	340	(14)*2.44	(11) - (15)	(11) - (15)	(17), / (10) (18)	(12) - (15) (19)	(11)(18)	(20)/(10) (21)	(13) - (15)	(11) - (22)	(23)/(10) (24)
0 \$0 \$0.00% \$5,200,270 \$5,201,146} \$0.42% \$4,789.91 \$440,351 19,622 \$47,807 \$5,000,775 \$5,200,775 \$5,200,775 \$5,409,847 \$5,200,775 \$4,7807 \$6,600,775 \$5,409,847 \$5,409,847 \$5,600,975 \$4,7807 \$6,600,775 \$5,400,975	2000											
0 \$9 \$4,988,125 \$0 \$0 \$5,200,270 \$5,402,146 \$4,709,919 \$4,035,135 \$60,035 \$4,035,146 \$6,47% \$4,709,919 \$4,40,351 39,246 \$6,615 \$6,00,775 \$86,615 \$6,00,775 \$96,615 \$6,200,775 \$96,615 \$6,200,775 \$96,615 \$6,200,775 \$96,615 \$6,200,775 \$96,615 \$6,200,775 \$96,615 \$6,200,775 \$96,615 \$6,200,775 \$96,617 \$6,000,778	2001											
0 \$1 \$2 \$4,968,125 \$1 \$1 \$2,200,270 \$3,478,175 \$4,00,075 \$3,400,647	2002											
0 \$0 \$4,969,125 \$0 \$0,000% \$5,200,270 \$5,200,	ather Act, 2003					,	C TO SEC.	一般 できる	100.4.000	e.e. 750 016	196 OFF	0.76%
19,622 \$47,807 \$6,700,775 \$6,700,775 \$1,000,700 \$2,000,775 <td>precested 2004</td> <td></td> <td></td> <td>M.958, 125</td> <td>୍ଷ</td> <td>80</td> <td>SS.200,270</td> <td>(\$642.140) (\$600.000)</td> <td></td> <td>2.4. TAT 75.8</td> <td>\$689 F992</td> <td></td>	precested 2004			M.958, 125	୍ଷ	80	SS.200,270	(\$642.140) (\$600.000)		2.4. TAT 75.8	\$689 F992	
39,245 \$86,615 \$5,200,775 \$86,615 \$1,432,230 \$1,332,3400 \$1,032,3400 \$1,032,3400 \$1,032,3400 \$1,032,3400 \$1,000,000 </td <td>2005</td> <td>19,622</td> <td></td> <td>\$5,079,038</td> <td>\$47,807</td> <td>0.08%</td> <td>Superior Superior Sup</td> <td>(170 797K)</td> <td></td> <td>000000000000000000000000000000000000000</td> <td>4978 055</td> <td>\$ 15 m</td>	2005	19,622		\$5,079,038	\$47,807	0.08%	Superior Sup	(170 797K)		000000000000000000000000000000000000000	4978 055	\$ 15 m
58,867 \$143,422 \$5,377,613 \$143,422 \$6,847,733 \$1,357,1969 \$1,307,200 \$1,307,200 \$1,437,200 \$1,437,200 \$1,437,200 \$1,437,200 \$1,307,200 \$1,437,200 <td>2006</td> <td>39,245</td> <td></td> <td>\$5,200,775</td> <td>\$95,615</td> <td>\$ 90°</td> <td>\$5,622,330</td> <td>(0.025.025.0)</td> <td>(0.0200)</td> <td>200 (000) 200 and</td> <td>64 449 047</td> <td></td>	2006	39,245		\$5,200,775	\$95,615	\$ 90°	\$5,622,330	(0.025.025.0)	(0.0200)	200 (000) 200 and	64 449 047	
78,490 \$191,230 \$5,443,091 \$191,230 \$192,734 \$190,730 \$14,900	2007	58,867		\$5,327,613	\$143,422	22%	\$5.634.233	(\$263,198)	2 2	0074004	COCTOC TO	7 350
98,112 \$229,037 \$6,557,195 \$239,037 \$6,220,011 \$422,778 \$6,527,78 \$4,627,78 \$4	2008	78,450		\$5,443,091	\$191,230	0.29%	\$6,029,798	(\$395,478)	388	0.50.019.00 0.50.019.00	200,720,10	
117.734 \$286,845 \$5,684,432 \$286,845 \$0.41% \$6,425,946 \$5,454,619 \$10,65% \$30,024,833 \$1,007,959 \$1	5003	96,112		\$5,557,195	52.00,003	0,35%	\$6.220.01	(\$422,778)	(0.62%)	Co. 100 100 100 100 100 100 100 100 100 10	000 L00 10	2000
137.357 \$334,652 \$5,811,246 \$334,652 \$6,830,896 \$446,965 \$6,07% \$5,087,18 \$1,876,831 156,976 \$392,460 \$5,924,905 \$5,924,905 \$6,832,704 \$5,661,90 \$6,70% \$5,160,624 \$2,084,50 176,902 \$430,267 \$6,932,704 \$5,661,90 \$6,70% \$5,137,79 \$2,202,518 176,902 \$430,267 \$6,587 \$7,036,030 \$5,57,000 \$6,531,79 \$2,292,518 176,902 \$430,267 \$6,587 \$7,236,940 \$557,000 \$6,507,000 \$6,587,000 \$6,507,000	2010	117,734		\$5,684,492	\$289,845	0.41%	\$6,425,946	(\$454,619)	(0.65%)	85.07.4 R58	000,100,10	R 2
156.979 \$5,924,060 \$5,934,066 \$1382,490 0,52% \$6,832,704 (\$516,130) (\$70%) \$5,130,084 \$2,190,084 \$2,190,084 \$2,190,084 \$2,193,779 \$2,252,516 176,602 \$430,267 \$430,267 0,55% \$7,266,940 (\$547,000) (\$66%) \$5,130,771 \$2,252,516 176,602 \$430,267 \$430,267 0,55% \$7,266,940 (\$547,000) (\$66%) \$5,131,781 \$2,355,516 176,602 \$430,267 \$6,597,007 \$430,267 0,55% \$7,266,940 (\$547,000) (\$66%) \$5,331,781 \$2,355,516 176,602 \$430,267 \$6,597,007 \$430,267 0,55% \$7,662,121 (\$773,461) (\$66,007) \$5,444,899 \$2,537,489 176,602 \$430,267 \$6,597,007 \$6,597,007 \$6,508,007 \$6,508,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007 \$6,608,007	2011	137,357		\$5,811,248	\$334,652	0.46%	\$6,630,896	(5484,095)	(0.67%)	55,088,718	51,876,831	F 60.7
176,602 \$430,267 \$6,236,725 \$7,036,030 \$6546,137 \$6,723,779 \$5,233,779 \$5,232,515 176,602 \$430,267 \$6,236,627 \$1,036,030 \$6547,000 \$6,650,31,781 \$5,233,779 \$5,232,517 176,602 \$430,267 \$6,538 \$7,266,040 \$657,000 \$6,650,38 \$5,531,781 \$2,236,427 176,602 \$430,267 \$6,538 \$7,266,040 \$657,000 \$6,650,388 \$2,531,781 \$2,336,427 176,602 \$430,267 \$6,538 \$7,562,121 \$7,764,444 \$6,690,163 \$2,531,781 \$2,531,781 176,602 \$430,267 \$6,538 \$7,660,179 \$7,761,444 \$6,690,163 \$2,531,781 \$2,532,731 176,602 \$430,267 \$6,538 \$7,603,134 \$6,690,163 \$2,680,648 \$2,531,781 \$2,532,731 176,602 \$430,267 \$6,538 \$6,690,163 \$6,001,63 \$2,126,441 \$6,690,163 \$2,126,441 \$2,126,441 \$2,126,441 \$2,126,441 \$2,126,441 \$2,126,441 \$2,126,441 <td< td=""><td>2012</td><td>156,979</td><td>***</td><td>\$5,934,065</td><td>\$382,480</td><td>0,52%</td><td>\$6,832,704</td><td>(\$516,180)</td><td>- 1887 O</td><td>\$5,150,624</td><td></td><td></td></td<>	2012	156,979	***	\$5,934,065	\$382,480	0,52%	\$6,832,704	(\$516,180)	- 1887 O	\$5,150,624		
176,602 \$430,267 \$430,267 \$430,267 \$5,331,761 \$5,331,761 \$2,394,427 176,602 \$430,267 \$430,267 0.53% \$7,266,040 (\$627,000) (0.85%) \$5,331,761 \$2,394,427 176,602 \$430,267 \$430,267 0.53% \$7,562,121 (\$703,461) (0.85%) \$5,544,899 \$2,537,489 176,602 \$430,267 \$6,57% 0.52% \$7,806,139 (\$751,444) (0.95%) \$5,544,899 \$2,537,489 176,602 \$430,267 \$6,57% 0.52% \$7,806,139 (\$751,444) (0.95%) \$5,568,338 \$2,978,479 176,602 \$430,267 \$6,57% \$6,57% \$1,000,40% \$5,680,163 \$2,978,479 \$5,680,163 \$2,978,479 \$2,586,40 \$2,588,478 \$2,588,478 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 \$2,588,273 <td< td=""><td>2013</td><td>178 600</td><td></td><td>\$5,059,626</td><td>2430,267</td><td>\$98.0</td><td>\$7,036,030</td><td>(\$546,137)</td><td>(822)</td><td>55,213,779</td><td>52,252,518</td><td>£ :</td></td<>	2013	178 600		\$5,059,626	24 30,267	\$98.0	\$7,036,030	(\$546,137)	(822)	55,213,779	52,252,518	£ :
176,602 \$430,267 \$6.52,121 \$7.03,461 \$6.448,899 \$2.537,489 \$2.537,489 176,602 \$430,267 \$6.22 \$7.862,121 \$7.862,121 \$6.703,461 \$6.448,899 \$2.537,489 176,602 \$430,267 \$6.22 \$7.802,124 \$7.862,124 \$6.867,285 \$6.802,386 \$2.882,773 176,602 \$430,267 \$6.57 \$6.57 \$6.660,163 \$2.882,773 \$2.882,783	2014	176 602		\$6 239 672	X30,267	%95°0	57,736,940	(\$537.000)	(A) \$6/A)	\$5,531,781	\$2,395,427	8
176,602 \$430,267 \$430,267 0.52% \$7,808,79 (\$761,444) (\$267,96) \$5,568,338 \$2,680,646 176,602 \$430,267 \$430,267 0.51% \$8,078,159 (\$262,764) (\$102%) \$5,680,163 \$2,982,73 176,602 \$430,267 \$430,267 0.50% \$8,351,134 (\$965,764) (\$110%) \$5,680,163 \$2,978,627 176,602 \$430,267 \$7,148,171 \$430,267 0.48% \$8,613,635 (\$110%) \$5,801,7862 \$3,125,940 176,602 \$430,267 \$7,339,218 \$430,267 0.44% \$8,892,120 (\$1,122,65) (\$1,23%) \$5,106,067 \$3,125,940 176,602 \$430,267 \$7,339,218 \$430,267 0.47% \$8,892,120 (\$1,122,65) (\$1,23%) \$5,106,067 \$3,125,940 176,602 \$430,267 \$7,339,267 0.44% \$9,174,026 \$\$1,207,775 \$1,20% \$3,436,196 176,602 \$430,267 \$7,337,267 \$430,267 \$434,843 \$3,434,843 \$3,782,694	2015	178.802		\$6,418,393	SA30,267	253%	\$7,652,121	(\$700,481)	(3/28/0)	\$5,444,899	\$2,537,489	8 15%
176,602 5430,287 5430,287 0.50% 58,078,159 (102%) 55,680,153 52,828,773 176,602 5430,287 56,867 0.50% 58,351,134 (995,764) (110%) 55,680,163 52,978,053 176,602 5430,287 57,148,171 5430,287 0.44% 58,613,035 (110%) 55,817,862 53,125,940 176,602 5430,287 57,339,218 5430,287 0.47% 58,613,035 (112%) 55,042,520 53,125,940 176,602 5430,287 57,535,994 5430,287 0.47% 59,174,026 (51,207,775) (12%%) 56,168,097 53,436,196 176,602 5430,287 57,535,994 5430,287 0.47% 59,174,026 (51,207,775) (12%%) 56,168,097 53,436,196 176,602 5430,287 57,337,466 5437,027,775) (12%%) 56,168,097 53,436,196 176,602 5430,287 57,337,277 5430,287 54,346,843 53,434,843 53,782,694 176,602 5430,287	2016	178 603		\$6,597,007	\$430,267	0.62%	\$7,808,719	(5781,444)	16.55%	55,558,338	52,680,648	
178,602 \$430,267 \$6,965,103 \$430,267 0.50% \$8,351,134 (\$1505,764) (1.10%) \$5,603,338 \$2,878,003 \$178,602 \$430,267 \$1,148,171 \$430,267 0.44% \$8,613,535 (\$1,122,635) (1.16%) \$5,917,862 \$3,125,940 \$178,602 \$430,267 \$1,339,218 \$430,267 0.47% \$8,892,120 (\$1,122,635) (1.23%) \$5,168,697 \$3,328,195 \$178,602 \$430,267 \$1,339,267 0.45% \$9,174,026 (\$1,207,775) (1.26%) \$5,168,697 \$3,436,195 \$1,800,824 \$178,602 \$430,267 \$1,339,271 \$430,267 0.44% \$9,767,269 (\$1,399,731) (1.42%) \$5,434,843 \$3,762,694	2012	176.602		88,785,488	X80,887	0.51%	\$8,078,159	(\$667,396)	(1,02%)	\$5,690,163	52,828,273	e e
176,602 \$430,267 \$7,148,171 \$430,267 0,48% \$8,613,535 (\$1,035,067) (1,16%) \$5,917,862 \$3,125,940 176,602 \$430,267 \$7,339,218 \$430,267 0,47% \$8,892,120 (\$1,122,635) (1,23%) \$6,042,620 \$3,279,867 176,602 \$430,267 \$7,535,894 \$430,267 0,46% \$9,174,026 (\$1,207,775) (1,28%) \$6,168,097 \$3,436,196 176,602 \$430,267 \$7,737,496 \$430,267 0,45% \$9,777,402 (\$1,307,726) (1,35%) \$6,306,905 \$3,800,824 176,602 \$430,267 \$7,937,271 \$430,267 0,44% \$9,767,289 (\$1,399,731) (1,42%) \$8,434,843 \$3,762,694	92518	COR RICH		\$5,985,103	\$430,267	0.50%	\$8,351,134	(\$955,764)	(1,10%)	\$5,803,338	\$2,978,U53	\$5.00 s
178,602 \$430,267 \$7,339,218 \$430,267 0,47% \$9,892,120 (\$1,122,635) (1,23%) \$6,042,520 \$3,279,867 176,602 \$430,267 \$7,535,994 \$430,267 0,46% \$9,174,626 (\$1,207,775) (1,28%) \$6,168,697 \$3,436,196 176,602 \$430,267 \$7,737,468 \$430,267 0,45% \$9,477,462 (\$1,306,728) (1,26%) \$6,306,905 \$3,000,824 176,602 \$430,267 \$7,937,271 \$430,267 0,44% \$9,767,289 (\$1,399,731) (1,42%) \$6,434,843 \$3,762,694	9 6	476 600		100 100 100	1430.284	0,48%	\$8,613,535	C100 800 150	(1.16%)	55.917.852	53,125,940	2 i
176,602 \$430,267 \$7,535,994 \$430,267 0.46% \$9,174,626 (\$1,207,775) (1.29%) \$6,168,097 \$3,436,196 176,602 \$430,267 \$7,737,498 \$430,267 0.45% \$9,477,462 (\$1,307,728) (1.36%) \$6,306,905 \$3,600,824 176,602 \$430,267 \$7,937,271 \$430,267 0.44% \$9,767,289 (\$1,399,731) (1.42%) \$8,434,843 \$3,782,694	8000	478 803		87.030.01B	S430.287	0.47%	\$8,892,120	(\$1,122,635)	(4.23%)	\$6,042,520	\$3,279,067	3.58%
176,602 \$430,267 \$7,737,468 \$430,267 0,45% \$9,477,462 (\$1,306,728) (1,55%) \$6,306,905 \$3,600,824 176,602 \$430,267 \$7,837,271 \$430,267 0,44% \$9,767,289 (\$1,396,731) (1,42%) \$6,434,843 \$3,782,694	zuer.	**************************************		57 575 G84	792 0875	0.46%	59,174,026	151,207,775		\$6,168,097	53,436,196	1000 P
176,602 \$430,267 \$7,937,271 \$430,267 0.44% \$9,767,269 (\$1,399,731) (1,42%) \$6,434,843 \$3,762,694	2023	CONTRACTOR	• *		\$430.267	0.45%	\$9,477,462	(\$1,306,728)		\$6,206,905	S3 600 624	2000
· · · · · · · · · · · · · · · · · · ·	£0066	17E ACT		\$7,937,271	\$430,287	0.44%	\$9,767,269	(51,399,731)		56,434,843	\$3,782,694	3.83%
	2024											

											Total Fixed C	Total Fland Cost per MINN (Class & Subsidy)	s & Subsidy)
	1	Total System				Mano Jurisdictional Energy 37.30%	Erengy	*8**					
<u></u>	Blue Case Energy	Growth Scenario (MWH)	(James) Crowell Scenario	Brase Class Enemyly (Nemnt)	Series Rate	Mgt Growth Scenario (MWH)	ēģē	Low Growth Scenario (WWR)	Low Growth Parts	Base Rate Class Revenue Requirement	Gaso Revenue	High Revenue	Low Renessue
_1	5	5	.	(1)*97.36%	9	%% 75.1C) %% 75.1C)	E	(3)*10.7 %26.7(1)*10.00 (8)	8	(19)* 1*(5) (10)	(4)*14.76	(3)**(8) (3)**	(8)************************************
	2		<u>:</u>	**************************************									
2000	1,852,948			100 TOR'L	% 10° /								
2001	1704.840	_		1,558,738									
2002	1,657,946	CCM MAD #	+ ARR RTS	1 4 CG .	\$ 05 U	1 622 591		1,822,591		\$89,232,344	\$23,960,361	\$23,950,361	123,950,361
WESTING AND CARGO	4.000,000,4		4	1 670 717	2.07%	1,789,341	10.28%	1,581,490	(3.77%)	\$71,285,775	\$24,680,728	\$26,411,684	\$23,048,473
WATER CAN		-	566.354	1,677,923	0.43%	1,848,931	3.33%	1,624,981	(%, x , 2)	\$71,590,258	\$24,767,100	\$27,291,274	522 509 598
roug work	1730,606		530 095	1875 149	0.17%)	1,886,027	201%	1,489,571	(3.26.2)	\$71,474,826	\$24,726,129	\$27,838,830	\$21 984 XE
3007	4 725,259	,	_	1,679,640	0 27%	1,926,376	2.4%	1,467,010	信器に	\$71,666,484	S24,792,435	100 TO TO TO	\$21,650,000
9008	27.20	7.7	*	1,583,419	0.23%	1,981,086,1	1.82%	1,446,334	(1.41%)		\$24,648,222	\$20,950,693	52'8, 349'45'5'
5002	1,732,997		•	1,687,212	0.23%	1,884,273	1.68%	1,428,524	(1.23%)	••	\$24,963E,210	DAG GC 9/75	0.20(0.00) 1.76
2010	1736.830	\$090.5	1,451,233	1,690,944	0.27%	2,025,973	7.00°	1412,555	\$ 5 5	\$72,148,821	224, WOW, 424	TIO 100 000	e'va ace age
118	1,740,930		1,437,370	1,694,997	0.24%	2,057,086	- 54.	1,399,395	(S. S. C.	\$72,321,754	525,019,117	THE TOTAL PRO	AND SALVES SEE
2012	1,745,012			1,698,910	0.23%	2,085,440	138%	1,386,913	FR.	•	\$25,076,873	*** TOK 201	**************************************
2013	1,749,050	2,170,609	1,410,979	1,702,841	0.23%	2,113,263	1,33%	1,313,702 1,012,703	() () () () () () () () () () () () () (•	105,455,655	COA TAN 100	A10,012,034
2014	1,752,949		1,399,968	1,708,637	0.22%	2,141,365	1.83%	1,383,011	(0.78%)		\$25, 190, 932	201,700,164 201,000,000	440 CG3 640
2015	第1.82.7		1,389,198	1,710,383	0.23%	2,167,961	1245	1,383,497	(0.77%)		\$25,246,216	*35.000.555 *44.474.576	2 19 (ACM 014)
2018	1,760,949	2,252,625	1,378,499	1,714,425	024%	2,193,112	*5	1,342,090	18.C.2		525,405,634	332,071,035 469	610,000,000 610,000,000
2017	1,784,812	2,277,021	1,367,634	1,717,992	0.21%	2,216,864	1.08%	1,331,626	(0.77%)		100 000 CT	*34, f44, 100 ***********************************	2 18 100 LOS
2018	1 758 228	2,300,453	1,359,181	1,721,513	*600 O	2,242,558	16%	1,000,072	S 63%			4 - CA - C	# 4 4 7 6 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
\$ 50 E	1,771,737		-	1,724,929	0.20%	2,287,512	1	1,315,025	(S) (\$2.9%)	••	\$25,460,927	077, 938, 858	510,014,410,013
2020	1,775.1E	_	1,342,381	1,728,294	20%	2,291,637	188	1,305,916	_	\$73,742,482	\$25,510,626	\$30,680,000 \$10 * \$10,000	0.00,000,000
2021	645 BY L		1,334,153	1,731,561	0.19%	2,314,963	10%	1,290,915			25.000.000	980000000000000000000000000000000000000	COC 330 400
2022	1782.063		•	1,734,982	0.20%	2,337,599	0.96%	1,290,923			\$25,809,318	\$34,504,282	019/1003/1904
2003	1,785,347		1,317,947	1,738,179	0.18%	2,359,460	4	1,283,128	(X) (A) (X)	•	10.000.00	- A (00)	
702	198,193			1,741,534	0.19%					\$74,307,391	528,708,032		

Fine Costs Fine Costs Fig. Fi		Demand S	Demand Side Management		Revenue	tecovered at Tol	otal Fixed Cost per N	er MWH (Class	Revenue Recovered at Total Fixed Cost per MVH (Class & Subsidy) Rate less DSM unrecoverd costs	less DSM unm	coverd costs	
(14) (15) (15) (11)-(15) (17)-(16) (17)-(16) (17)-(15) (17)-(15) (17)-(16) (ra X	Energy Savings (AWH)	Fixed Costs Unrecovered	Base Revenue Recovered	Amount of True-Up (Base)	True-Up Percentage of Revenue Requirement (Base)	High Revenue Recovered	Amount of True-Up (High)	True-Up Percentage of Revenue Requirement (High)	Low Revenue Recovered	Amount of True-Up (Low)	True-Up Percentage of Revenue Requirement (Low)
0 \$0 \$24,600,729 \$0 \$26,411,684 \$1,750,955 \$2,46% \$25,048,473 \$11,612,256 1,1213 \$165,686 \$24,600,729 \$10,23% \$27,606,621 \$22,441,421 \$21,405,639 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,637 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,406,737 \$23,407,737	p Fi	(14)	(14)* 14,76 (15)	(11) - (15) (16)	(11) - (18)	(17) / (10)	(12) - (15) (19)	(11)-(11) (20)	(20)/(10)	(13) - (15) (22)	(11) - (22)	(23)/(10) (24)
6 \$0 \$2,4,640,729 \$0 \$0 \$22,441,1594 \$1,750,956} \$1,245% \$22,406,873 \$1,612,256 11,213 \$166,507 \$224,640,27 \$227,200,682 \$22,441,21 \$3,415 \$22,426,833 \$23,000,257 11,213 \$166,507 \$236,507 \$227,200,22 \$22,247,175 \$24,450,27 \$22,424,175 \$24,450,475 \$22,426,833 \$23,000,257	2000											
60 \$5 \$50,000% \$26,411,694 \$17,50,955 \$2,406,473 \$1,612,256 606 \$82,754 \$24,690,729 \$60 \$20,008,221 \$27,508,221 \$23,408,625 \$2,404,427 \$27,008,221 \$23,408,627 \$23,407,627	2603 2603											
6 \$0 </td <td>eather Arg. 2003</td> <td>a.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>200 Sept 200 Sept 200</td> <td>40% C+0 +4</td> <td>****</td>	eather Arg. 2003	a.								200 Sept 200	40% C+0 +4	****
6,606 \$82,754 \$82,754 \$12% \$27,720,827 \$24,414,27 \$44,50 \$22,400,22 \$22,000,25 11,213 \$165,507 \$248,261 \$23,86,70 \$23,88 \$23,41,42 \$21,405,639 \$23,000,26 16,816 \$284,261 \$248,261 \$23,88 \$26,600 \$41,44 \$21,405,639 \$2,200,26 16,816 \$224,82 \$23,600 \$24,146 \$23,41 \$23,400 \$23,714,469 \$23,714,469 \$23,714,469 \$23,714,469 \$23,714,469 \$23,400,529 \$23,21,41 \$20,600 \$23,714,469	Conscasted 2004				0 \$	% 20 0	230 411 694	(\$1.750.959)		523,CHG-473	41,014,450,000	**************************************
11,213 \$166,507 \$24,60,722 \$17,673,323 \$27,671,793 \$27,673,323 \$27,671,793 \$27,673,323 \$27,673,473 \$27,673,473 \$27,674,773 \$2	2005			\$24,684,346	\$82,754	0.12%	\$27,208,521	(\$2,441,421)		\$22,425,633	\$2,340,20 63,040,20	4 (P) %
16,819 \$248,281 \$248,281 \$248,281 \$248,181,135 \$23,393,699 \$44,478 \$21,000,200 \$23,393,699 \$44,478 \$21,000,200 \$23,393,699 \$44,478 \$21,000,200 \$44,282 \$42,221,411 28,032 \$43,600 \$44,400,400 \$44,400,400 \$44,400,400 \$44,200,400<	2006	11,213		\$24,560,622	\$165,507	0.23%	\$27,673,323	(\$2.847.193)	(4.12%)	321,022,079 331,102,079	22, 200, 12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	473%
22,426 \$331,015 \$24,467,208 \$331,015 \$34,104,627 \$41,14,80 <th< td=""><td>2007</td><td>16,819</td><td></td><td>\$24,544,175</td><td>\$249,251</td><td>0.35%</td><td>\$28,185,135</td><td>(\$3,383,659)</td><td>4.74%</td><td>527.40.059 940.459</td><td>Par Dia C</td><td>, n</td></th<>	2007	16,819		\$24,544,175	\$249,251	0.35%	\$28,185,135	(\$3,383,659)	4.74%	527.40.059 940.459	Par Dia C	, n
28,032 \$449,768 \$24,490,442 \$441,768 0.57% \$25,022,890 \$44,168,670 \$20,220 \$20,000 \$30,000	2008	22,426		\$24,517,208	\$331,015	0.46%	\$28,619,679	(53,771,495)		00'010'17¢	10 10 10 10 10 10 10 10 10 10 10 10 10 1	200 A
33.638	\$50%	28,032		\$24,490,442	\$413,788	%16°0	\$20,022,650 \$20,022,650	(\$4,118,620)		520,672,093 520,672,093	24,626, 10 24,656, 105	\$ \$ \$ \$ \$ \$ \$ \$ \$
39,245 \$579,275 \$24,438,424 \$579,275 \$24,438,444 \$579,275 \$29,248 \$579,275 \$20,000000 34,242,020 \$4,847,020 \$24,444,844 \$60,000000 \$4,847,020 \$579,448,478 \$579,478 \$579,487 \$579,487 \$579,487 \$579,487 \$579,487 \$579,487 \$579,487 \$579,487 \$579,041 \$779,487 \$579,041 \$779,487 \$779,487 \$779,487 \$779,487 \$779,487 \$779,487 \$779,487 \$779,487 \$779,487 \$779,487 \$779,787 \$	2010	33,638		\$24,462,771	\$496,522	36836	\$29,407,992	(\$4,448,700)		000000000000000000000000000000000000000		2
44,851 \$662,029 \$24,481 \$30,120,757 \$5,643,200 \$19,74,627 \$20,020 50,458 \$744,783 \$24,481 \$744,783 \$24,481,183 \$10,3% \$30,448,180 \$10,7% \$10,3% \$10,0% \$10,	2011	39,245	.,	524,439,B42	\$579,275	0.80%	\$29,784,516	(\$4,765,398)		520,076,590	34,3442,020	2000 1000 1000 1000 1000 1000 1000 1000
50,458 \$744,783 \$24,380,118 \$744,783 \$10,3% \$30,448,180 \$55,313,279 \$75,313,279 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,313,313 \$718,31	2012	44,85*		524,414,244	\$662,029	0.91%	\$30,120,252	(\$\$,045,280)		519,794,832	30,284,041	2 44 4
50,458 \$744,783 \$24,446,149 \$744,783 1,02% \$30,682,977 \$55,672,044 \$71,374,027 \$30,082,077 \$55,672,044 \$71,374,027 \$30,082,077 \$50,458 \$744,783 \$24,446,144 \$744,783 1,02% \$31,255,550 \$56,000,334 \$19,065,073 \$50,082 \$50,000,334 \$19,065,073 \$50,082	2013	50,458		\$24,390,118	\$744,783	1,03%	\$30,448,180	(SE 213 2)		700 100 BLS		400%
50,458 \$744,783 \$74,783 \$10,2% \$31,255,550 \$50,09304) \$12,2% \$10,095,073 \$10,045,073	2014	50,458		\$24,446,149	\$744,783	8	500,082,977	155 GEN 944		120,010,010	00000000	2000 C
50,458 \$744,783 \$74,783 \$10,2% \$31,626,785 \$6,320,688 \$6,43% \$10,000,073 \$0,440 50,458 \$744,783 \$24,661,714 \$744,783 \$10,2% \$31,977,380 \$5,518,844 \$18,971,809 \$5,446,727 50,458 \$744,783 \$24,665,718 \$744,783 \$10,1% \$32,357,228 \$5,946,728 \$18,971,809 \$5,446,727 \$0,458 \$744,783 \$24,786,783 \$10,1% \$32,724,987 \$17,264,060 \$18,787,452 \$5,446,727 \$0,458 \$744,783 \$24,786,783 \$10,1% \$33,425,622 \$10,27% \$18,477,838 \$7,130,881 \$0,458 \$744,783 \$744,783 \$10,1% \$33,425,622 \$7,867,002 \$10,1% \$33,425,622 \$7,867,002 \$10,1% \$10,1% \$33,425,622 \$7,867,002 \$10,1% \$10,1% \$33,425,622 \$7,867,002 \$10,1% \$10,1% \$23,425,622 \$7,867,002 \$10,1% \$10,1% \$23,425,622 \$7,867,002 \$10,1% \$10,1% \$23,425,622 \$7,867,002 \$10,1%	2015	50,458		\$24,501,433	\$744,783	182	\$31,255,650	(\$8,009,334)	(823%)	\$19,218,625	20.02/20.02 20.02/20.02	6 0 0 0
50,458 \$744,783 \$74,783 \$74,783 \$10,7% \$31,977,380 \$56,618,844 \$10,02% \$18,711,827 \$0,458 \$18,717,827 \$10,7%	2015	50,458		\$24,881,114	\$744,783	1,02%	\$31,626,795	(\$6,320,698)		578,000,003	20'CMC, 02'	
50,458 \$744,783 \$74,783 \$101% \$32,357,228 \$55,946,728 \$18,665,728 \$51,66% \$18,665,728 \$51,66% \$0,458 \$744,783 \$101% \$32,724,987 \$12,64,060 (897%) \$18,665,728 \$5,785,109 \$0,458 \$744,783 \$744,783 \$101% \$33,081,074 \$71,570,467 \$10,27%) \$18,665,728 \$5,894,561 \$0,458 \$744,783 \$744,783 \$101% \$33,425,622 \$7,655,002 \$10,07% \$18,311,007 \$7,298,311 \$0,458 \$744,783 \$24,084,783 \$744,783 \$1,01% \$33,759,500 \$6,160,102 \$10,10% \$7,481,603 \$0,458 \$744,783 \$744,783 \$1,00% \$24,082,320 \$6,150,102 \$10,10% \$7,481,603 \$0,458 \$744,783 \$744,783 \$1,00% \$24,082,320 \$6,150,002 \$11,01% \$18,194,908 \$7,481,603	2017	50,458		\$24,013,754	\$744,783	1,02%	\$31,977,380	450,019,044	- X	210,211,2016		2 2000
50,456 \$744,783 \$74,783 \$101% \$32,724,987 \$12,64,060 (8,87%) \$18,665,728 \$5,045 \$50,458 \$744,783 \$744,783 \$101% \$33,081,074 \$7,570,467 \$10,27%) \$18,548,045 \$98,456 \$0,458 \$744,783 \$744,783 \$744,783 \$1,01% \$33,425,822 \$7,867,002 \$10,65%) \$18,427,836 \$7,130,881 \$0,458 \$744,783 \$24,847,83 \$1,01% \$33,759,500 \$8,150,102 \$10,1% \$7,280,311 \$0,458 \$744,783 \$744,783 \$1,01% \$24,082,320 \$8,150,102 \$11,01% \$18,194,508 \$7,481,603 \$0,458 \$744,783 \$1,00% \$24,082,320 \$8,425,609 \$11,35%) \$18,194,508 \$7,481,603	2018	50,458		\$24,685,718	\$744,783	1,01%	\$32,357,228	(55,945,728)	(36836)	578,181,452	00'07'0'08	6 46 6 6 46 6 7 6 6
50,458 \$744,783 \$24,785,823 \$744,783 1,01% \$33,081,074 {\$7,570,457} {10.27%} \$18,548,045 \$95,954,501 \$10.27%} \$0,458 \$7,44,783 \$7,44,783 1,01% \$33,425,822 {\$7,867,002} {10.65%} \$18,427,938 \$77,130,881 \$0,458 \$7,44,783 \$24,844,783 1,01% \$33,759,500 {\$8,150,182} {11.35%} \$18,194,508 \$7,481,603 \$50,458 \$7,44,783 \$24,911,728 \$7,44,783 1,00% \$24,082,320 {\$8,425,609} {11.35%} \$18,194,508 \$7,481,603	2010	50.458			いた。 288	1,01%	\$32,724,987	127,264,050	(264)	518,665,728		707
50,458 \$744,783 \$24,814,037 \$744,783 1.01% \$33,425,822 (\$7,867,002) (10.65%) \$18,427,938 \$7,130,831 50,458 \$7,44,783 1.01% \$33,789,500 (\$8,160,182) (11.01%) \$18,311,007 \$7,298,311 50,458 \$744,783 \$24,911,728 \$744,783 1.00% \$24,082,320 (\$8,425,609) (11.36%) \$18,194,608 \$7,481,603	W. W.	50.458			\$744,703	1,01%	\$33,001,074	(\$7,570,467)	1027%	S18,548,045	20.4	7 4 9 4 16 4
50,458 \$744,783 \$24,811,728 \$744,783 1,01% \$33,739,500 (\$8,150,182) (11,3670) \$18,311,007 \$7,298,311 50,458 \$744,783 \$24,911,728 \$744,783 1,00% \$34,082,320 (\$8,425,609) (11,3670) \$18,194,908 \$7,481,603	1000				\$7.44,783	1,01%	\$33,425,622	(\$7,867,002)	(10.65%)	\$18,427,936	\$7,130,881	£00.5
50,458 \$744,783 \$24,911,728 \$744,783 1.00% \$24,082,320 (\$8,425,809) (11.36%) \$18,194,808 \$7,481,603	2000	50.459		524 864 535	\$744,783	\$ 10° F	\$33,759,500	(\$8,150,102)		518,311,007	\$7,296,311	00 100 100 100 100 100 100 100 100 100
	2023	50,458			\$744,783	1,00%	\$34,082,320	(5.8,425,629)		S18, 194, 908	\$7,481,603	\$0.00 \$0.00
	2024											

۲	Total System			=	OFFICE PRINCIPALITY BY A		* 10			S STATE LINES	Common and the second little	I manage
30	Water Street	Scenario World		iģi	High Growth Scenario (WWH)	High Growth Rate	Low Growth Scenario (WWH)	2 g 2	Pere Riverson Copulation Copulation Copulation Special Specia	Date Revenue	Figh Formula	Low
3	2	報	-	(5)	\$	€	(8)	Ē	35)	adrima Arch Agen Agen Tharm	(2)	ů.
			10,597,104	r.								
			11,112,598	1.14%								
			10,853,895	(2.37%)					NOO TOTAL	FULL POP POPE	000 524 5813	\$183,233,030
	11,805,038	11,805,036	11.114.408	2.42%	11.114.409		8 ·		200 1 00 7 100	20 TO 1	590 010 1013	\$182 129 388
	12,602,115	11,740,737	11,435,570	2.85%	11.063.697	£ 74%	11,053,340	4686 4686 4686 4686 4686 4686 4686 4686	\$503, 180,20s	SACOLAGE SAC	\$100 cus 9014	S-18-3 914 749
	13,123,649	11,876,023	11,747,198	2.75%	12,352,605	*	11,179,000	£ 4.	5534, 128, 165	Charles and a	S 10 1 243	\$185 990 705
	13.84.67	12,032,169	12,000,159	2.43%	12, 791, 966	1000 K	11,323,576	S	\$57.5.WZb. 136	TO SECTION OF THE PARTY OF THE	100 000 ++6×	A188 245 564
	14,067,758	12,212,065	12,320,126	2.43%	13,225,361	3000	11.491.486	io T	SON (1993) 953	Contract Contract	MAN DUR PACA	\$191 CO. 860
3.4 16.062	14,620,302	12,411,512	12,620,297	2.45%	13,657,986	が記念	11,676,530	\$.	5550,637,436	5.40 , 101 , 104 , 04 de	100,010,100,000	198 844 951
13,724,754	14,965,152	12,606,752	12,906,510	30.8	14,074,850	3.06%	11,858,491	\$ i	5952 JOS 450	CTO SCH ***CS	550 F94 8005	\$196.029.628
	15,395,971	12,795,007	13,187,171	2.18%	14,475,989	, 36 16 16 16 16 16 16 16 16 16 16 16 16 16	12,033,398		107.01.2.01.000 100.000.000	TOTAL DAYS	CT13 CT1 278	*15 45 535
	15,626,418	12,989,129	13,460,981	2.12%	14.677.050	2	12.213.929	660	3060,034,092 ************************************	ののでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本の	5778 967 100	\$200,815,0053
14,614,932	15,244,890	13,177,079	13,737,592	2.05%	15,269,037	2.62%	12,338,023	20 m	der out of the	C90 Z0% CCC3	\$244 216 933	\$203,374,275
11.049.41	16,672,010	13,375,220	14,016,491	% 3 6	15,666,574	£ .	* DE 1970 25		POTO STATE TO STATE STAT	8736 113 867	52/02/246/728	\$205 776 336
15,207,907	17,093,310	13,569,596	14,280,335	1.67%	16,059,282		12,155,562	1,444.	CONTRACTOR TO SERVICE	THE ASSESSED	\$254 000 450	\$207,974,500
15, 499, 825	\$1,500,649	12,756,013	14,000,000	1.92%	16,441,821		12,927,162	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	264.000 the	199 181 2508	525-8, 103, 333	\$210,486,242
15,797,410	17,929,520	13,955,624	14,639,150	1.02%	15,878,678		10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	2007	SECTION OF SECTION	SET TON BECOM	52EA 151 805	2212 80 003
16,098,631	18,358,923	14, 158, 763	15,119,754	1.01%	17,226,214		13,501,636	9	HAND STATE STATE	CONTRACTOR SAID	8269 255 003	\$215,536,300
6.400,894	18,790,877	14,387,635	15,400,754	1.89%	17,640,650	\$ \$50 pt	13,495,632	1. ACM	5000, 190,022	**************************************	ECH YOU FALL	\$218 mag 157
908 707 93	19,223,256	14,570,476	15,085,880	1.85%	18,044,058	222	13,584,529		5576,794,87U		440 100 0100 V	4270 414 420
47 DER DAD	10.657 145	14 775 943	15,073,567	1.00	18,449,012	2.22	13,875,534	£5.	25. A. 25.	N. 4. W.C. 400		
20 20 20 TOB	20 400 706	***************************************	# X2.55	1.82%	18.861,195	2.24%	14,073,776	10 m	\$700,182,505	\$251,434,135	NCO/070%	\$225.622.60
4 3	200 1 200 1 20 A	100 and and	46. A.S. 1. B.C.S.	4,81%	19,281,552	233%	14.275.298	1.43%	\$712,022,678	\$256,052,613	\$289,602,420	\$200 (21, 24d
17,639,629	20,002,040	10,200,000 10,416,017	16. But almo	1 77%	1969433	2 14%	14,470,703	1,37%	\$723,806,964	\$258,729,527	22 10 10	\$228,175,274
	dop des in	- 5 +	17 434 053	30.00					\$559.274,269			
16.25% D/O			200 dec. 200						\$567,969,639			
10 600 717			大学的 医阿里氏	7. 4.7.28								

	Energy Savings (MMH)	Fluid Costs. Unrecovered	Bass Revenue Rocovered	Amount of True-tip (Base)	Trae-Up Percentage of Revenue Requirement (Base)	High Revenue Recovered	Amount of True-Up (High)	Trae-Up Percentage of Revenue Requirement (High)	Loss Revenue Recovered	Amount of True-Up (Low)	Trus-Up Percentage of Revenue Requirement (Low)
	(14)	£1.	(\$4)	(44)	(91)	(31%)	(30)	(C)	(23)	62	8
Weener Adj. 2003	- 1			Ş	0.07%	\$193.212.763	(5.716.190)	(1.14%)	182,129,388	5,610,340	1,12%
Forecasted 2004) t	US SCA **	8 151,455,000 8 151,850 3850	C# 0735 874	023%	\$198,825,155	(7.55,912)	(138%)	192,837,876	9,161,978	1,78%
		# 10.010,10 #################################	6+63 444 140	40 207 611	0.42%	\$203,659,602	(8,0%6,84D)	2 X 5	183,743,094	12,241,222	\$60 CH
	030 500	*** 102. 243.	\$196 100 374	53 392 213	263%	\$208,278,114	(8,783,528)	(3.83 t)	184,863,351	15,135,858	2.81%
	CAC AND	\$4 630 679	F. 8.18	\$4,630,679	\$48.0	\$213,039,907	(9,272,284)	(1,68%)	186,374,209	17,980,121	12 C
	200.448	\$5,923,010	\$201,880,640	\$5,923,010	1,05%	\$217,468,884	(9.665,234)	(1,72%)	187,741,942	20,724,524	3 00 c
	482 150	\$7.323.068	200,205,205	\$7,323,068	1,20%	5221,330,995	(9.902.923)	(47.1%)	189,706,560	23,562,976	ू च
	474 685	SR 176 991	\$206,434,402	\$8,776,991	1.50%	\$225,160,294	(10,848,804)	(1.10%)	189,721,645	26,309,306	4.00
	50000	\$10.284.778	\$208,570,541	\$10,284,778	1,72%	\$228,682,321	(50,007,000)	(*959*)	190,530,251	29,223,709	A
	767.516	511 835 657	\$210,731,425	\$11,835,657	1,96%	\$232,381,277	(9,814,195)	(161%)	191,539,618	32.004.088	A I
	767.518	\$11.835.657	\$214,278,200	\$11,835,657	1.91%	\$237,411,071	(111,297,214)	(182%)	193,940,679	33,230,445	\$ 100 mg
		\$11,805,657	\$217,761,407	\$11,835,657	******	\$242,168,829	(12,509,765)	(3661)	198, 138,843	34,591,949	\$ 10 m
	747.45	511 825 857	\$201 O45 SO4	\$11,835,657	* PR *	\$247,267,676	(14,000,045)	(25,5%)	198,660,585	35,732,71	F 100
	787.548	\$11,035,657	\$224,968,121	\$11,835,857	1,84%	\$252,316,148	(15,514,370)	12 33 W.	201, 157, 405	36,942,038	£ 600 kg
	787.836	\$11.835.657	\$228 642 583	\$11,835,657	1,78%	\$257,419,352	(16,941,012)	(2.85%)	20,700,000	36, 163, 738	を生め
	767.546	S11 825 857	\$232,305,840	\$11,835,857	1,75%	\$262,460,167	(18,318,670)	13.14	206,200,500	39,403,363	7
	464.66	*** #25.65.7	201 CN0 ACC	\$11,835,857	. T. J.	\$267,461,671	(19,458,221)	(%,996,2)	208,679,843	40,676,500	\$ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
		130 TO	874 808 0002	\$11,835,657	1.69%	\$272,739,547	(21,305,412)	(多种化)	211,393,910	41,678,266	5.95%
	767.48	E44 825,857	\$343.257.156	\$11,835,857	1,06%	2377,758,752	(22,873,950)	(3 18%)	213,891,592	42,941,217	\$ 00 %
	767.516	\$11,835,667	\$246,613,870	\$11,838,857	25 T	\$282,728,785	(23,969,256)	(%2E C)	218,339,517	44,219,908	₩ - \$-

APPENDIX 9—FIXED COST LOST REVENUE PER MWH BY CUSTOMER CLASS

Fixed	Cost I	Lost Revenue p	per MWh by Cust	omer Class	
			Base Rate Comp	oonents (\$/MWh)
		Residential	Commercial*	Irrigation	Industrial**
Total Base Energy Cost per MWH	(1)	\$51.90	\$29.32	\$32.57	\$21.45
Variable Cost per MWH - Class	(2)	\$20.69	\$20.21	\$23.53	\$18.41
Variable Cost per MWH - Subsidy	(3)	\$1.08	\$0.81	(\$5.72)	\$0.60
Fixed Cost per MWH - Class	(4)	\$28.76	\$7.25	\$22.09	\$1.67
Fixed Cost per MWH - Subsidy	(5)	\$1.38	\$1.04	(\$7.33)	\$0.77
Total Fixed Cost per MWH (Class & Subsidy)	(6)	\$30.14	\$8.29	\$14.76	\$2.44

^(*) Commercial rate is a weighted avg. of schedules 07 & 09 S,P, & T based on energy use.

^(**) Industrial rate is a wghtd. avg. of schedule 19 S, P & T based on energy use.

APPENDIX 10—FLIP CHARTS REGARDING MIKE YOUNGBLOOD'S PRESENTATION

Rate Impacts by Class

NWPCC/weather adjusted with true-up

Residential

- If energy sales faster than forecast and DSM = growth, brings back to base.
 - (Ralph's perspective) It is not trying to reward company for increased growth—provides for status quo in rate case
- For DSM, % class increase still relatively small on an annual basis in short term. Regular rate case would adjust recovery so that effect in long term wouldn't be as high as modeled.
- With increase kWh use (and increased number of customers), may result in refund to customers <u>plus</u> additional cost for more facility investment.

Results with True-up

-) In high growth, company may be refunding customers and investing in capital/infrastructure.
- Trends of true-up effects similar between rate classes.

Customer Count Model

(Revenue side only)—Recoupling to revenue per customer

- Number of customers doesn't affect recover (when use per customer does not change)
- For high, refund in first few years while use is higher, then positive return to company after first few years.
- 3) For low case, collecting more than DSM
- 4) 1.2% over time period in fixed cost recovery
- For industrial customers, change in number of customers has greater effect (irrigation customers are problematic)—served better by forecast energy
- Residential, small group—served better by customer count

APPENDIX 11— MODEL OF RATE IMPACTS BY CLASS UNDER CUSTOMER COUNTS

RESIDENTIAL GOISIONES

This is a dynamic model and so the values change. The numbers here represent just one scenario based upon the input assumptions.

Total Fixed Cost per Mini (Class & Sabaldy)	O Class Revenue Requirement	Fined Cost Recovery pre Customer	DSM Savings Assumptions:	(2) Enhanced Residential and Commercial Numbers (Mike Bufo's Analysis)	[3] Horimage Power & Conservation Council's DSM Assumptions	10% Percemage Growth & Customer Count	Change in Avg. Use per Cost. (Bask)	Percentified above Best (Han)	Percentage below Base (Low)	Compounded? (basks, 1=Yes)
\$30,14	\$212,126,730	\$378.23	**************************************			* 57	*00	É	(340.1-)	
+	'n	33	4			2 0	÷	Ł	ło	þ.

	_	Ê																						
	Percent of Class Reverse Requirement	EE		* 000°	e de la companya de l	\$ 1500 1000	E 1	1,42,44 1,014 1,014	6 3 7 6 6		8 3 6 3 6 4 6	E I	2.00	10 m	まんから	3678	\$ 150°C	3,67,5	1.00 M	2000	大学	を発行	をおれ	is is
	Amount of True-Up (Bree)	148 (8) - (13)		S	28. S.L.	81,882,978	82.401.831	53,254,555 54,55	04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.74.450 04.740 0	2887 P277 SE		37,340,403	28,524,546	28,724,595	55,524,556	20 P. S.	記している	55 524 505	教育社会	28,524,526	\$5 534 500	55 524 565	AND REAL WAY	Sandrie Barrios
	Base Case First Cost Resents Recovered	12 P		\$128,412,753	\$128,956,713	\$129,451,273	\$129,916,963	\$130,350,711	5180 786 846	5131,086,857	\$131,403,540	\$131,551,505	5131,040,444	\$130,245,094	STAT 783 701	\$136,199,676	\$107,643,887	S120 100 577	\$140,551,873	\$142 673 937	\$143 578 912	\$145,000 (467	Company of the Party of the Par	See Mind See Co
	Actual Fixed Cool Recovery Per WWH (Combind UserCust)	174) (134,818) 8 7*		\$128,432,703	84226,717,020	\$131,014,251	S132, 324, 334	\$133,647,037	\$134, Sec. 114	\$136,323,955	8137,597,216	\$130,074,267	\$140,485,0HD	\$141,869,650	\$143,288,257	\$144,727,240	21.85, 158, 453	\$147.430 137	\$140 100 435	CDS 502 0818	SC W SC - 4 3 4 4	414 KIN KIN	のなが、 なられて からまっき	\$155,150,156
	Avg. Use / Curt. (Base)	1 (13) (13) × 6"	3	12.549	12,549	12,545	STATE OF	12,540	12.545	12,549	12.549	42,548	12,529	45.55	25.60	2.22		12.638	13 Kab	13 E.B.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		27.72
The second secon	Flued Coats	(11) (12) (10) X T		09	\$780 369	51,862,978	S2,407,838	SO 2004 9200	\$4,274,2855	85,236 089	2000	87, 300, 480	20.00	St. 524 556	CO 60 500	100 mm	E. 47.2 4.64	\$60 F.C. S.A.			× × × ×		00 mm	なるなな。
Contract Con	Erangy Sevings (WWH)	(a) (s)		ю	25,229	51.859	100 GZ	109,325	140.950	AL 25	200 000	245 280	280 840	EMB 0360	14000	170 CBS	040 640	200	CANAL CANAL		100			OF CE
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Allowed Fixed Cost Recovery Per Customer Count	1		CASE CELEBONS	1100 717 040	5435,044,28d	100 F20 CX13	1133 FAT 637	A1-1-200-1-1-2	\$136,323,985	2427,9807,290	TOWN WALL COLUMN	K 415 485 010	O20 000 1714	Care and the same	Control of the Control	200 200 200 PM	Carden Control Carden		2.42 TUD 6.43	200	\$150 100 ¢78	\$150 KO 4010	新教、教教
		Ξ 1		ă	8 2	3 5	(%	ı z		. 29		* *	5 2	0 ź	3 1	4 3	- 1	Q. ;	ŽĮ.	e:	N	ę	E	8
Contract of the Contract of th	Custon	£ ₹		estra sano-	Caro see		240 855	150	245 86	360.45	(A) \$100	100	20 T T T T T T T T T T T T T T T T T T T	200	200000		70 70	2	S.	e T		St. CO	10.00	410 222
	First Cost	(A) (C)	***	\$378.23																				
	Number of	(S)		32.25																				
	Base Certs Pared Cose	(3) (2)		4,218,174 \$127,388,141																				
	2 - Lag	Energy (ermis)		4,218,174																				
		E		2002	300	Ŕ	8	5005				2	ã	2	ž	5	888	200	3013	9102	X	ě	Se April 1	i de la companya de l

RESIDENTIAL

Year (High) (1) (19) X (8**7*) 2003 (12,649 2004 (12,649 2005 (12,802 2005 (12,802 2006 (12,802 2006 (13,190 2009 (13,190 2009 (13,190 2009 (13,190 2011 (13,699	Awei (159	High Case Fixed Cost Revenue (21) (20) - (11) (20) - (11) 5129,717,080 5131,564,026	Amount of True-	Percent of Class	-		CASE FIXED	-	Percent of Class
			\$	Revenue Requirement (High)	Avg. Use / Cust. (Low)	Percent Decrease in Average Use per Customer	*	Amount of True-Up (Low)	Requirement (Low)
	9 9 9		far Result	1	(23)	8	£2	(33)	80
• • • • • • • • •	\$128,717,090 \$132,324,394 \$137,697,295 \$137,697,295		(3) - (21)	ā.	(22)	(25) X (6) X 1*	(28) - (11)	(8) - (27)	.Z.9 /Z.
	\$129,717,090 \$132,324,394 \$137,697,295				12,549				27 m
	\$132,324,394 \$134,984,114 \$137,687,285		18CE MRC 1 X1	10.85%	12.424	\$127,148,425	5127,148,425	\$1,284,338	0.55%
	\$132,324,384 \$134,884,114 \$137,897,295	000000000000000000000000000000000000000	CREAT BAR FOR	(%01 U/	12,300	\$127,135,710	\$126,375,343	83,241,738	
	\$137,607,295		Complete Com		771 61	\$127,122,987	\$125,560,019	\$5,454,232	2.35%
	\$137,697,295	\$133,421,136	(SX, 4UX, 635)	A COLUMN TO S	13.085	\$427 110 784	\$124,700,454	\$7,621,940	2,20%
	化甲基 有妻子 经分子者	\$135,289,454	(n)/(n) (25) (25)			4.53 Tot 6.73	5123 802 647	\$9,844,950	4,24%
	こうのなるこの	\$137,170,084	(53,522,446)			ACC ACC TO ACC ACC	\$122 880 599	\$12,123,515	5.22%
	\$143,288,357	\$139,064,092	(54,079,978)	11.76%		424 CTO 1244	K121 R34 067	S14 499 838	6.24%
	\$148,168,453	\$140,930,385	(84,596,410)	7 9.		DOT THE PERSON	K120 765 264	\$18 972 DO	7.29%
	\$149,108,425	\$142,812,285	(\$5,114,990)	(3.30%)	13.000 E	CAN SO FEE	Gre system	\$10.410.048	**************************************
012 13.725	\$152,103,478	\$144,711,015	(45,636,749)	(2 4 2 %)		**********	61 10 670 471	655 830 103	9.45%
	\$155,160,758	\$146,636,192	(\$6,171,162)	(266%)		120,960,1218	- 15 CO	CDR 5772 RDS	10.06%
	\$158,279,489	\$149,754,923	187,885,263)	(%6% %)	11,235	#00,130,431%	CHARAGA CAR	\$24 804 291	10 68%
	\$161,460,907	\$152,938,341	(\$9,647,984)		13,124	350,000,000,1215	ANG 101,011	474 245 B75	8
2016 14,282	\$164,706,271	\$156,181,705	(\$11,460,465)	12.22	250.51	**************************************	100 00 00 00 00 00 00 00 00 00 00 00 00	187 JULY 787	11 80%
	\$168,016,867	\$159,492,301	(\$13,323,849)	18:22:51	10,902	102,009,0218	POOLUNE OF THE	650 184 130	5 SF %
	\$171,384,006	\$182,859,440	(\$15,238,300)	(6.55%)	10,783	\$126,930,933 \$126,930,933	CEC CAR CARA	£20, 873, 169	13.20%
	\$174,839,026	\$199,314,460	(\$17,208,021)	14147	10,6835	CONTROL OF STREET	0.13/001/01/01/04 01/4/001/01/01/04	440 478 030	42.05%
	\$ 178,363,290	\$169,828,724	(\$19,231,221)	(8.50%)	10.578	25.35.50	4/0/24/0/14	400 170 mm	* CO * FT
	A-84 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	\$173.413.626	1521,310,1471	ではな	10,473	\$126,932,446	000 104 BL	000,000,000	70 TU
	C41 704 140	C177 070 583	1873 448 070	(2002)	10,368	\$126,919,752	\$118,395,187	\$35,229,325	10.10%
2022 10, 10.1	0.400 And		(\$25 RAD 288)	- 1. C. S.	10,284	\$128,907,060	\$118,382,495	\$38,778,253	E 20 C

COMMERCIAL

This is a dynamic model and so the values change. The numbers here represent just one scenario based upon the input assumptions.

	the 20 Total Fload Cost per MINH (Cites & Galandy)	SANSARO, CLAMA Revenue Requirement	\$535.30 Fixed Cost Recovery per Castomer	DSM Savings Assumptions in 2004 IRP	[2] Enfunced Desidental and Communical Numbers (Main Rido's Analysis)	(3) Hordread Power & Conservation Council's DSM Ausumptions	1.0%. Percentage Growth in Customer Count	B.O.S. Charge in Avg. Use per Cost. (Bate)	TON. Persentage above Base (Mgh)	(1.0%) Percentage before Base (Low)	Compounded? (Deffo, 1=Yes)	
Constants:	*	ħ.	in	i.			ůc.	i.	h	æ	3-	

		Ē																					
	Percent of Cleas Remains	(4) (4) (4)	8,000	0 14%	0.30%	1.00 G	0.63%	£ 50	1.00%	13.6	**************************************	1,85%	1,46%	*37	£.	*\$\$-		360°L	- S. S.	1.65%	1.85%	2000	
	Americal Trae-Up (Base)	(32) - (6) (33) - (6)	8	\$135,945	1383.511	4550 ESP	5810 508	51,045,539	対象が	ST 558 800	51,947,626	変別が	\$2,128,041	18,85	18, 18, St.	18.67	28.08	12.22	る。まな	52 12 QL1	20.81	150 MI C	- Lander - Carlotte - Lander - Carlotte - Ca
DAGE	Base Case Transfiction Formula	(85) (14) · (11)	\$27,558 856	127,008,000	\$27,738,479	\$27,811,821	ACT ATA TES	127,929,355	127,963,263	\$27,988,626	\$28,005,254	\$28,015,811	128, 212, 824 128, 212, 824	128 621 650	12 52 52	120,220,880	\$30,550 PAS	\$20 \$70 \$45	120 120 811	\$300 513 678	SOCIAL DAY	ENN 175 RACS	Agil, teg., was
	Actual Fined Control C	(14) (13) × (6) × 3*	100 HER 700	\$27, BM4, 545	\$38,122,990	226,404,2270	128, 688 242	\$28, \$75, \$45	200 797 625	226,550,550	\$20,650,121	530,151,662	530,455,955	\$5,757,85 \$1	131,086,277	131,375,920	431,689,689	120 000 000	120 220 652	202020	EX. 0.0 6 418		*** OKO 10**
	Ang. Uses Close.	1134 (134 × 61)	66,500		200	200	24.550	2	64,565	88775	855.25	64.593	65, 55	2	28	262,590	25. 150	000 mg	Contract of the	(1) The state of t	(の)の場合である		64. Xe
	45) 100 110	(41) (12) (10) X T	Ę	200 SEC. 70	1303	1092,636	\$813.508	81,048,939	\$1,301,614	51,568,000	S1 847 826	\$2,106 O43	22 52 52	138041	2	200	100 SC CS		44. 146. DATE	44 14 14 14 14 14 14 14 14 14 14 14 14 1	244, LAXI LAW	\$ X	12 25 25
	M	6	ī	=	10 mm		680 1112	- N	156 979	180 216	150 CCS	247 614	700	200	ALL BUT	267 674	25.7 613	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* *** *** **** **** **** **** **** **** ****	T	1 N	257 (7.4
	Annual There	200	3 3 4	227,200,000	000 con 800	CAST AND SER	CAC MAN BCD	AND DESCRIPTION OF STATE OF ST	SECTION OF SECTION	SFS LIN CCA	- C.	ENC 484 280	CAN TANKS 1808	200 Jan 1861	CO. 100 200	CT1 (256 (CE)	(Sept. 19.4)	600, 600, 1 C.C.			\$20,626,910	\$32 976 418	01 MA 10
	Actival	(a)		100 TO	52,016	100 00 00 00 00 00 00 00 00 00 00 00 00	20 005 4 4 500	200	4. (3)	5 to 12 to 1		100 mg		200	200 a 4	550 GG	71000 00000		Z .	8	8	2012	62,219
	Part Con	Controller	\$838.30																				
	Ž	Customers (3)	540,042																				
		Recovery +3(2) × 1°	127,286,497																				
	į	Emergy (WMA)	3,291,982																				
			2002	2002	2002	800	2002	200	8000	9	2		2013	*	2	Sories	2017	838	2010	00%	1.0%		500

COMMERCIAL

Year Avg. Use / Could. Average Use per Customer (1) (19) X (6"-7") (19) X (8"-7") 2003 64,659 \$27,844,545 2004 65,205 \$27,844,545 2005 65,857 \$28,404,220 2006 65,857 \$28,404,220 2007 67,181 \$28,675,145 2009 67,853 \$28,404,220 2009 67,853 \$28,404,20 2010 67,853 \$28,404,20 2011 69,216 \$28,675,145 2012 67,853 \$20,157,700 2013 77,181 \$22,657,547 2014 72,027 \$33,306,182 2013 77,314 \$33,306,182 2014 72,027 \$34,658,548 2015 72,747 \$34,658,548 2016 72,747 \$35,005,822 2017 72,027 \$35,005,822 2017 72,027 \$36,065,822 2017 72,747 \$36,065,822 2017	Cincrette In gre Use per sistemen (20) X (6) X 1*			NAME OF TAXABLE PARTY OF TAXABLE PARTY.	200		というというのできているのできないというというというというというというというというというというというというという			
(High) (19) X (6**7*)	Omer (6) (5) X 1*	- T		Gareant of Class				Low Case Fixed		Percent of Class
(19) X (6*7*) (19) X (6*7*) (1	Use per		1				Percent Decreases	Coat	Amount of	Revenue
(19) X (6*7*) (19) (19) X (6*7*)	(b) X 1.	3 8		Requirement	4	Avg. Use / Cust.	O SERVICE S	Revenue	True-Up	Requirement
(19) X (6*7*) (19) (19) X (6*7*) (19) (5.205 (5.205 (6.205 (6.205 (6.206 (6.206 (7.207 (7.207 (7.207 (7.206)	(5) X 1° (6) X 1° (844,548	Recovered	Mah	(High)		(Low)	Customer	Recovered	(Low)	(Fox)
64,589 64,589 65,205 65,205 67,181 67,853 68,531 69,216 69,216 69,909 70,608 71,314 72,747 73,747	(6) X 1*	1241	(22)] 8	(25)	(82)	(2 ⁺)	(29)	
64,659 65,205 65,205 65,205 67,181 67,853 68,531 68,531 70,608 70,608 72,747 73,447 73,209	7,844,543	5 C C C C C C C C C C C C C C C C C C C	150 - 180	ı.		(25) X (6**8*)	(25) X (6) X 1	(Sg21)	(8) - (27)	7 (97)
64,689 65,205 85,205 85,816 67,181 67,853 68,531 70,608 72,747 73,747 73,747	7,844,545	£113.4075	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1						
64,649 65,204 65,804 67,853 67,853 68,516 69,216 72,727 73,747 73,475 73,747	7.844.548					64.559				
65,205 85,857 88,516 67,1853 68,531 88,531 70,606 71,314 73,747 73,475 73,2747	2 Z	1 m	では をなるもの	2000		7.029	831 252 753	\$27,293,169	\$275,689	ž N O
55,857 56,181 57,181 69,216 69,216 70,606 72,747 73,747 73,747 73,747		227 P. A. C. D. C.	(Sport 198)	2 C 1 2 P 1		16.000	\$27 200 438	S27 104 493	\$740,051	0.57%
98,516 67,181 67,1853 68,531 69,216 69,216 77,314 72,747 73,475 74,209	\$28,404,220	\$28,218,275	(\$373,731)			00,000	COLUMN TON	804 408	C# 248 792	200
67,181 69,245 69,246 70,509 72,027 72,727 74,209 74,209	\$28,975,145	\$28,591,634	(\$453,644)	(2,98,0)		25,042	0.000	100 000	A 2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	****
67, 161 68, 531 68, 531 70, 608 72, 72, 747 73, 475 74, 209	*** KAT 6.45	COR OFTE PAR	(\$500 COC)	0.43%		62,015	\$27,284,680	226,692,243	PER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 1
67,853 68,531 69,216 70,606 71,314 72,747 73,447 74,209		CAN 020 044	TENTO GENT	1% DV U		500,100	\$27,282,252	\$26,468,743	22,219,619	
68.531 69.216 69.809 70.608 72.7027 73.475 74.209	200,101,002	4500 CO. 140		(A) B B B B B B B B B B B B B B B B B B B		FB7 781	\$27.279.524	\$26,233,584	\$2,741,561	2.12%
68.216 69.909 70.608 71.314 72.747 73.747 74.209	\$30,757,700	\$29,711,761	0.0000			******	897 978 798	\$25,975,182	\$3,289,714	2.54%
69,909 70,608 71,314 72,747 73,475 74,209	\$31,375,930	\$30,074,316	(88,4,4,20)			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E27 272 DE	\$25 705 159	\$3,852,396	2.97%
70,608 71,314 72,027 72,747 73,475	\$32,006,585	\$30,437,677	(\$690,133)	(C) 450 (C)		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***********	40% AND 40%	\$4 42% 608	では、
71,314 72,027 72,747 73,475 74,209	010 640 CCS	\$30,802,092	12820,0282			26.47.0			** 0.00 0.00	7.0 r
72,027 72,747 73,475 74,209	\$33 306 182	\$31,170,141	(\$1,018,48%)	12,62,01		58 386 38 386	ME , 200, 514	353, 136, 379	0 10 0 0 0 0 mm	20 m
72,747 73,475 74,209	537 975 83B	\$31,839,595	(\$1,386,427)	1000		57,902	\$27,285,887	200 871 978	90,040,040 47,000,000	
200 A	C34 658 548	\$10 500 508	151 754 835	(1.06%)		57,224	\$27,283,160	\$25,127,119		# 150 m
	404, COC. CO.	C21 010 120	(42) 163 (865)	1166%		56.652	\$27,290,434	\$25, 124, 393	25.040.034	\$ 10 4
		600 000 000	(C) 8(3)	1478		36,086	\$27,257,708	\$25,121,667	20,128, 200 20,128, 200 20,128	\$ CO.
	200,000,000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	(4 to 100	10 7000		45.53.5	\$27,254,962	\$25, 118,941	\$6,570,748	5.07%
74,951	\$36,780,745	S34,654,705	(C) (C) (C) (C) (C)			54 670	X27 252 258	\$25,116,216	\$6,090,370	5,32%
2019 75,701 837,	\$37,530,239	\$35,394,199	(\$3,387,612)	(マルアのア)		0 6		C. 14 1 . 60m	47 243 163	5.57%
10 4°0	539,284,597	536,149,556	153,621,9041	(252.2)		024.40	100.047.770	3	· · · · · · · · · · · · · · · · · · ·	i v
******	444 Pt4 148	525 918 077	(54, 768, 159)	(%\$2 E)		53.876	\$27,246,805	20.11C.03	100 mm mm	
277.11	2000 0000	697 703 086	(\$4 774 Fall)	(3.85%)		53,337	\$27,244,082	\$25,108,041	57,868,377	ř.
CRR')	200,000,000	200000000000000000000000000000000000000	CHO PER SE	7774		50 AN	\$27.241.357	\$25, 105, 316	\$8,200,855	\$ 600 G
2023 78,775 \$40.	\$40,639,871	\$38,503,631	(Sto. 1947 (CK)	18 19 to		5				

INDUSTRIAL

This is a dynamic model and so the values change. The numbers here represent just one scenario based upon the input assumptions.

\$2.44 Total Fixed Cost per MIVNI (Class & Subsidy) \$88,718,736 Class Revenue Requirement	\$46,400.29 Fixed Cost Recevery per Customer 3 0544 Survings Assumptions in 2004 IRP (1) 0544 Survings Assumptions in 2004 IRP (2) Enhanced Residential and Commercial Numbers (Ratio's Analysis)	(3) Hordwest Power & Conservation Council's DSM Assumptions 1.0% Percentage Growth in Customer Count	0.0% Change is Avg. Use per Cust. (Base) 1.0% Percentage above Base (Hgh) 1.0%) Percentage below Base (Low) 1.0%) Percentage below Base (Low) 1. Compounded? (Delto, 1=Yes)
Constants:	Fa ly	ъ.	b 1. lo 3.

-	ŝ																				
Percent of Cliens Reviewe Requirement	£ 6	0,00%	0.08%	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100	0.55%	0.55%	0.67%	25 CO	0.78%	ž R O	100 C	20 C	\$ P.O	* 25 co	2,420	120	ななが	ž Ž O	
Ameunt of True-Up (Beard)	415 (1) : (15)	æ	708.73%	295.618	24.04.04.04.04.04.04.04.04.04.04.04.04.04	£239,037	1220 345	\$324 BS2	\$362,460	5430,267	195 OST	14 20 202	13775	123.43	190 OCM	120.267	たのま	CARRY.	19200.34	**************************************	
Base Case Fixed Cost Revenue Recovered	(35)	24 673 BKT	S.4 AT4 818	K 875 237		Z 883 457	NAMES OF STREET	E SECURITA	ST SEA SEA	K 900 231	Z 88 88	\$5,007,374	25,081,750	55,145,071	M. 172, 140	\$ 250 PM	25,254,745	名がな	55, 250, 620 15, 250, 620	\$10,101	
Actual Fixed Cost (Secovery Per MMM) (Comtain) UsasCust)	.4 X (Q) X 代() (pt)	73.873.RS	\$4,922,030	24, 871, 883	\$5,021,575	25. 12. 28. E. 20. E. 2	\$5,173,729	SK, 225, 498	SS 277 721	86 XXX 498	55,385,800	\$5,407,641	\$55 402 O18	25,526,938	25,600,407	\$5,656,435	\$10,217,52	3,77. W	2 C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$\$\text{(\$1.00\)}\$	
Avg. Use / Cust. (Base)	414 414	19,044,825	19,044,825	19,044,825	19 044 825	10.044.825	19 044 825	19,044,825	19,044,825	10,044,835	19,044,825	19,044,825	19,044,825	10,044,835	10 Oct, 525	10 04.605	10,044,825	10 044 825	10 044 625	TO CAR, RCS	
	E I	Đ	٢	蛇	ta s	3 to	. 50)	ė3	0	. P.	Ph.	i-	D:	r-	re	F ~	*	ř.	- Fin-	<i>8</i> ~	
Fired Costs	(10) (10) X 1*	47	\$47.80	595 61	3143 45	20.00000	2.228 BL	\$334.65	5824	5C 0C#5	140038	\$430.28	\$500.38	20 Car	200	35 OC#4	X 007	20 TO	\$400 X	\$ DU-\$	
Energy Saving	(10L)	c	10 025	399 2445	1000000	08 4 KG	187.734	137,357	198 979	128 BC	178 600	178,602	176 600	178 600	178 602	2000	12% PKID	C29 47.1	200	176 600	
Allowed Flored Cost Recovery Per Cuttomer Count	(8) X (8)		500 COS 11	14.971,852	172,120,21	25,071,726	100 PM 100	*****	15,777,724	24.247.438	15 383 BCS	15,437,641	35 402 018	35.546.938	15 602 407	15 C. C. A. C.	** 216 DW	2 21 2	A. S.	10000000000000000000000000000000000000	
	É 1	*		t-	sis:	de d	5 -	4 6	5 79	r w	i eż	: r~	. ac	. 42		. 80			. «	t 3-	
Actual	(4) X (2).		. 5	, 2	15	₽ #		. *	: ‡	- +		Ξ	1 1900	***	*	* \$	2.5		* 4	* **	
Fixed Cost Recovery per Customer	(#) r (f2) [6]																				
Pitter of the second	€	\$																			
Suse Cate	14 E	54,825,631																			
Base Care	8	1,980,662																			
3] <u>=</u>	300			2007	80%	8		5 2	71170	2 3	2 5	2 \$	2962	110	5.4		1970	Į.	8	
	State Case Recovery Per affelt Fland Cost Recovery Cost Recovery Per affelt Fland Cost Avro. User Cust. (Constant Resovered Research France Country	Control Cont	Share Case Sha	Control Cont	State Case Fixed Cost Fix	State Case Pixed Cost Street Cost St	Court Cour	County C	Control Cont	Control Recovery Part County Part County Part County Part County Part Minister of Percent of Chemister of Percent of	Control Court Co	Court Cour	Continue Continue	Control Cont	Control Cont	December 2 December 3 December 4 December 4 December 4 December 5 December 5 December 5 December 6 Dec	Control Cont	Character Char	Conf. Newtonery Part Minimeter Actions Conf. Newtonery Part Minimeter Actions Conf. Newtonery Part Minimeter Actions Conf. Newtonery Conf. N	Continue Court C	Conf. Recovery Part Customery Conf. Recovery Conf

INDUSTRIAL

Avg. Use / Cust. Avg. Use / Cust. High Case Amount of True-Berning (High) Percent of Class (High) Customer Revenue Up Requirement of Class (High) Customer Revenue Up Requirement of Class (High) Customer Revenue Up Requirement of Class (19) (High) (High) (High) (High) (10) (High) (High) (High) (High) (1				HGH						LOW			
Avg. Use / Cust. Average Use per Average Use per (High) Recovered (High) (High) (23) (24) (19) (19) (19) (19) (19) (19) (19) (19)			Marie Company of the	Migh Case Fixed Cost	Amount of True-	Percent of Class Revenue	L	Vo. Las Cust.	Percent Decrease in Average Use Def	Low Case Fixed Cost Revenue	Amount of True-Up	Percent of Class Revenue Requirement	
(19) (20) (21) (22) (23) (24) (19) X (8**7*) (19) X (8) X 1* (20) - (11) (8) - (21) (22) / 2* (24) / 2* 19,044,826 \$4,922,626 \$4,922,626 \$4,922,626 \$4,922,626 (548,739) (0.09%) 19,427,625 \$5,021,571 \$4,973,783 (548,739) (0.09%) 19,427,625 \$5,021,571 \$4,973,783 (547,437) (0.10%) 19,427,625 \$5,021,571 \$4,973,783 (550,473) (0.10%) 19,821,902 \$5,122,504 \$5,006,473 (0.10%) 20,1016,302 \$5,334,499 \$5,108,004 (577,482) (0.17%) 20,218,405 \$5,48,939 \$5,006,473 (0.17%) (0.17%) 20,218,405 \$5,48,939 \$5,280,779 (586,037) (0.17%) 20,418,630 \$5,684,109 \$5,177,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409 \$5,497,409		Avg. Use / Cust. (High)	عسبعيدها	Recovered	3	(High)	• [(Low)	Customer	Recovered	(Low)	(Low)	
199 (19) (19) (19) (11) (11) (11) (12) (22)/27 19,044,825 \$4,922,626 \$4,922,626 \$4,922,626 \$4,922,626 \$4,922,627 \$4,973,763 \$6,024,737 \$6,024,737 19,427,625 \$5,021,571 \$4,973,763 \$5,024,737 \$6,024,737			100	1824	8		 ₹	(25)	(58)	ES.	(52)	8	
19,044,225 54,922,626 54,922,626 (546,739) (0 09%) 19,235,273 54,927,635 (541,737) (0 09%) 19,235,273 55,026,899 (555,037) (0 10%) 19,821,902 55,122,504 55,026,899 (555,037) (0 10%) 19,821,902 55,122,504 55,026,899 (555,037) (0 10%) 20,016,302 55,437,641 55,137,899 (556,037) (0 17%) 20,216,465 55,437,641 55,169,044 (577,482) (0 12%) 20,622,816 55,636,431 55,237,799 (596,313) (0 17%) 20,622,816 55,636,186 55,237,799 (596,313) (0 17%) 21,637,335 55,636,186 55,437,819 (577,421) (0 15%) 21,447,708 56,636,186 55,437,421 (577,421) (0 15%) 21,440,185 55,437,432 (578,134) (578,134) (0 15%) 21,440,185 56,437,432 (578,134) (0 15%) (0 15%) 21,440,185 56,437,432 (578,134) <th>=== ==================================</th> <td>(174.B) × (81)</td> <th>(19) X (8) X 1*</th> <th>(20) - (11)</th> <td>(8) - (21)</td> <td></td> <th>·</th> <td>(25) X (6**8")</td> <td>(25) X (8) X 1.</td> <th>(\$0 - 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1</th> <td>(8) - (27)</td> <td>.23) (82)</td> <td></td>	=== ==================================	(174.B) × (81)	(19) X (8) X 1*	(20) - (11)	(8) - (21)		·	(25) X (6**8")	(25) X (8) X 1.	(\$ 0 - 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	(8) - (27)	.23) (82)	
19,236,273 \$4,922,626 \$4,022,626 \$4,022,626 \$4,022,626 \$6,01377 \$10,09% 19,427,625 \$5,021,571 \$4,973,763 \$55,1377 \$10,09% 19,427,625 \$5,021,626 \$5,026,839 \$5,027,337 \$10,09% 19,621,607 \$5,122,504 \$5,026,839 \$5,037,337 \$10,09% 20,016,202 \$5,437,641 \$5,199,004 \$5,193,100 \$10,17% 20,218,465 \$5,437,641 \$5,199,004 \$10,17% \$10,17% 20,622,816 \$5,686,431 \$5,226,033 \$5,264,970 \$10,17% 20,622,816 \$5,686,189 \$5,333,779 \$10,27% \$10,27% 20,622,816 \$5,686,189 \$5,333,779 \$10,27% \$10,27% 21,637,235 \$5,686,189 \$5,437,189 \$10,27% \$10,27% 21,637,735 \$6,786,189 \$5,437,189 \$10,27% \$10,27% 21,637,735 \$6,786,189 \$5,437,189 \$10,45% \$2,586,189 \$10,57% 21,637,635 \$6,637,036 \$5,647,039 \$10,6	100	***************************************						19,044,828					
19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,625 19,427,728 19,427,728 19,427,728 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,427,733 19,437,733	3	********	経行法 かかむ マル	SON CON ES	SAL KEY	100000		18 854 376	SA, 825, 143	\$4,825,149	\$46,739	6000	
19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,902 19,821,903 19,821,903 19,822,846 11,8346	88	017 CO TO	64.344.545 64.734.434	CA 073 763	1551 137	(N.63/D)		18,665,832	\$4,824,665	\$4,776,858	\$145,768	1 TO TO	
19,827,1902 19,827,1902 19,827,1902 20,016,302 20,216,465 20,016,302 20,216,465 20,216,4787 20,		C70,124,81	- 15' x 75' y 6	000 000 00	(5.00.000)	in this is		18 479 174	\$4,824,183	\$4,728,568	\$243,284	0.43%	
10.016,173 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.216,465 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,044 20.229,045		19,621,902	40, 124,004 41, 414,004	## 000 044	(\$100) 473)	19,14,0		18 204 362	F4 823 701	84 690,278	24,78	0.60%	
20.218,465	è	19,018,14,1	00* 00*	44 130 369	(\$47.482)	1 % C Q		18,111,439	\$4.823.218	\$4,631,988	\$439,788	0.78%	
20.478,493 20.448,630 24.48,630 25.546,833 20.622,846 25.546,833 20.622,846 25.546,833 20.622,846 25.546,193 20.622,846 25.546,194 25.247,708 25.446,195 21.447,87 22.144,787 22.146,419 23.146,419 24.146,419 25	800	20,010,000	0.00 to 0.00 t	2017.00 CC	(301 HGF)			17,930,324	\$4,822,738	\$4,583,698	\$539,806	* 600 O	
20,818,634 20,822,816 20,822,816 20,822,044 21,037,335 21,037,335 21,247,708 21,247,708 21,247,708 21,247,708 21,247,708 21,247,708 21,247,708 21,247,708 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 21,247,709 22,140,450 22,140,470 22,140,470 22,140,470 22,140,470 22,140,470 23,140,470 24,140,470		20.215,455	- 50, 50, 50, 50, 50, 50, 50, 50, 50, 50,	# C 760 000	_			17,751,021	\$4,822,254	\$4,535,409	SEC. 325	1,13%	
20,829,044 21,037,335 21,047,346 21,037,335 21,047,348 21,047,348 21,047,348 21,047,348 21,047,348 21,047,348 21,047,348 21,047,349 22,146,449		20,414,030	841,040,040 84,840,434	# 5 20 TO				17,573,517	\$4,821,771	\$4,487,119	\$728,247	1,00%	
21,037,335 \$5,086,100 \$5,045,100 \$177,421 \$127,421 \$127,421 \$12,037,335 \$1,089,100 \$1,095,120 \$1,000		21.0,524,012	107 CP 100	20 000 AV	140	18,02.03		17 397 776	54,821,289	\$4,439,829	\$838,852	1.48%	
21,247,708 \$4,000,39 \$5,576,272 \$1327,72 \$10,577,21 \$1247,708 \$4,000,39 \$5,576,272 \$1327,468 \$10,546 \$	3 :	40.00 CA	00) 11/1/04 100 1000 100	0.000000000000000000000000000000000000	ine wa			17 223 798	\$4,820,807	\$4,350,540	\$809,959	1,66%	
21,440,146 21,440,145 21,440,145 21,440,145 21,440,145 21,440,145 22,110,450	25	56,750,73	500,000,000 60,000,000	45, 438, 979		198760		17,051,580	\$4,820,325	\$4,390,058	\$993,746	1,75%	
21,674,767 56,250,479 56,800,160 (5339,143) (0.59%) 21,691,535 56,904,22 56,940,161 (5339,143) (0.59%) 22,110,650 56,540,221 56,073,786 (5339,143) (0.70%) 22,331,555 56,674,956 58,246,696 (5446,257) (0.96%) 22,554,870 56,754,956 58,244,004 (5701,878) (1.0%) 22,750,419 56,944,362 58,474,004 (5701,878) (1.2%) 23,008,223 57,144,706 58,754,439 (5695,253) (1.5%)		O(1,1,902,12.	000,000,000 000,000,000	EK 667 DAR		10.46%		18,881,044	\$4,819,043	\$4,389,578	\$1,048,098	200%	
21,891,535 \$6,945,785 (5,959,867) (0,7034) 22,110,450 \$6,504,221 \$6,073,785 (5,959,867) (0,7034) 22,331,555 \$6,644,956 \$8,246,698 (8,646,257) (0,9678) 22,554,870 \$6,768,318 \$6,329,051 (5,623,025) (1,1078) 22,750,119 \$6,944,362 \$6,474,004 (5,701,878) (1,2478) 23,008,223 \$7,184,708 \$6,744,399 (5,623,934) (1,5374)	2 ×	4 : 400 (00)	00 F 03 C 30	**************************************	,	(1) (2) (1)		16,712,234	\$4,819,361	15 CO. 3	*1.100,924	1	
22,110,450 22,110,450 22,121,450 22,231,455 22,231,455 22,231,455 22,231,455 22,231,455 22,231,455 22,231,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 22,331,455 23,331,455	9 * 9 \$	100 F		CA QUE 7725		10,70%		16,545,112	\$4,816,879	\$4,368,612	\$1,158,326	2.04%	
22,331,555 \$6,54,956 \$8,204,638 (\$546,257) (0.96%) 22,554,970 \$6,768,318 \$6,309,051 (\$523,036) (1.10%) 22,759,419 \$6,904,362 \$6,474,094 (\$701,926) (1.24%) 23,008,223 \$7,043,139 \$6,612,872 (\$782,984) (1.36%) 23,238,305 \$7,484,709 \$8,754,439 (\$959,253) (1.55%)		440 4ED	200 C PUR SE	SE 073 954	(\$471.545)			16,379,680	\$4,818,397	\$4,383,130	51,214,277	17 P	
22.554,870 \$5,786,318 \$6,339,051 (110%) 22.554,870 \$5,786,318 \$6,339,051 (170%) 22.504,870 \$5,804.362 \$5,812,872 (5782,984) (1.28%) 23.508,223 \$7,043,139 \$5,514,439 (5869,283) (1.5%)	0 4	25, * 15, * 35,	20,000,000 20,000,000	S.R. DOK RIBIT	THE WELL	1 % Q Q Q Q P		16,215,884	\$4,817,915	\$4,387,648	\$1,270,783	2.24%	
22.780,419 \$6,904.362 \$8,414.004 (\$701.928) (1.24%) 23,008,223 \$7,043,139 \$86,912.872 (\$782,984) (1.38%) 23,238,305 \$7,043,139 \$8,754,439 (\$869,253) (1.53%)	8173 8173	22,321,030	200 TO	ER 238.053	18671 (1981	90		16,063,705	MA, 719, A.	\$4.387,166	\$1,327,049	S. N.	
22.780,419 35,804,302 35,414,004 35,008,223 37,043,139 56,842,872 (5782,984) (1.38%) 23,298,305 87,184,706 56,754,439 (5886,253) (1.53%)	25.	1 2 4 CC 7 7	01-01-001-004 01-01-01-01-01-01-01-01-01-01-01-01-01-0	10000000				15 RG3 168	Y 816,952	\$4,380,685	\$1,385,481	2.41%	
23,008,223 87,184,706 86,754,439 (5859,253) (1.53%)	23	22.780,419	737 Y 75 G	TON PLATER	CASC LOWER			15 734 235	\$4,816,470	\$4,386,203	\$1,443,635	2.55%	
23.238.365 \$7.184.705 \$6.704.39 (9000,400)	2022	23,008,223	あり、つまつこれ	2/0/2/0/08	Language Section	3 (000 *)		15 578 804	24 815 989	\$4,385,721	\$1,502,465	2,65%	
	2023	23,238,305	\$7,184,705	56 754 439	(8880,233	3		# 10 m					

IRRIGATION

This is a dynamic model and so the values change. The numbers here represent just one scenario based upon the input assumptions.

	\$14.76 Total Flued Coat per Mints (Clear & Substitut)	SAN LINE ALE CLESS PROCESS REQUIREMENT	STANEST Fixed Cost Recovery per Contomer	3 DSM Survivage Assumptives:	(2) Erbunged Residential and Commercial Manhama (Man Rudo's Analysis)	[3] Horithees Power & Conservation Countils DSM Assumptions	LOSS Percentage Growth in Customer Count	O. O. O. Change in Avg. Use per Cant. (Base)	(Constitution and the Constitution of Constitu	(1,0%) Percentage before Base (Low)	Composition Composition (Composition) and Composition (Composition)	
CONSTRING	Ş.	N	ě	1			ě.	ģ	î.	åo	3.	
•												

_		Ê	
	Present of Class Revises Respectivement	27 (95) (35)	0.000 0.000
	fine-to	180 180 180 180 180	88
	Part Car Market Recovered	(35) (34) (41)	124, 189, 866 124, 649, 919 124, 674, 821 124, 674, 821 125, 641, 625 125, 632, 133 125, 632, 133 125, 632, 133 125, 633, 133 125, 634, 634 127, 634, 634 127, 634, 634 127, 634, 634 127, 634, 634 127, 634, 634 127, 634, 634 128, 634 128, 634 138, 634 138
	Actual Fined Cost Necovery Per Mittle (Comtant	.1×(0/×(c))	124, 189, 965 124, 421, 1754 124, 421, 1754 124, 421, 1754 125, 422, 175 125, 422, 175 125, 423, 174 125, 627, 180 125, 627, 180 127, 180
		4:1) 4:1)	110,810 110,81
		(34) (12) (30) X 1*	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
		(34)	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	Allowed Flast Cost Recovery Per Customer	(3) x (2)	\$24, 195, 995 \$24, 431, 794 \$24, 431, 794 \$24, 575, 691 \$25, 472, 670 \$25, 472, 670 \$26, 496, 699 \$26, 465, 699 \$27, 590, 573 \$27, 573 \$27
		(E)	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		Customer (3)	公司 (1985年) (1985年)
	į	Contioners:	3. 3.
		#Becovery (3) (2) % 5"	13. oet, 25.
	2 t C	Emrigy (MMM)	7.00 C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.
		2 =	200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

IRRIGATION

							The state of the s			
] =	Avg. Use / Cust.	} {	High Case Fixed Cost Revenue	Amount of This	Percent of Class Revenue Requirement	Avg Use/Cont.	Percent Decrease in Average Use per Customer	Low Case Fixed Cost Revenue Recovered	Amount of True-Up (Low)	Percent of Class Revenue Requirement (Low)
	He	Customer	Mecovered	T (IIIBIII)	(March	1961	1980	(2f)	(S2)	(82)
	(18) (19) X (6*•7*)	(20) (19) X (9) X 1.	(20) - (11)	(12) · (8)	(22) (23)	(52)	(25) X (8) X 1.	(28) · (82)	(8) - (27)	(28) / 3.
4004	4					110,810				1 1 1 1
2002	መተወረሰተ የ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE PERSON NAMED IN	COCC PART COCC	The Co	109 702	\$23,947,965	\$13,947,956	\$241,899	0.3%%
200	11.918	421,024,424	#07 17 # #7A	TROP BURNS	1368 C	108,505	\$23,945,571	\$23,862,818	8263,946	0.82%
200	113,037	700,775,476	000'000'070	Control of the control		167.519	\$23,943,177	\$23,777,670	\$859,412	, SS, -
2006	114,188	\$25,423,791	N.5. 204, 264				523,540,783	\$23 662, 522	\$1,220,320	1,70%
200	15,865	\$25,934,900	\$15.68% SAB		1 1000	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	692 010 100	523 603 374	21.92.636	2.26%
88	116,402	\$26,436,000	526, 125, C84			# 10.000 # 10.000	200 000 000 000 000 000 000 000 000 000	\$23,522,226	\$1,801,505	2,75%
2002	117,827	\$20,987,967	\$26,574,098		F 55	200.000	CON COR 8011	970 TES 828	\$2,240,950	3,24%
20.00	118,903	\$27,530,323	\$27,033,801		F. S.	202,501	602 024 208	\$23,351,932	\$2,562,877	3,73%
Š	119,991	528 080 853	\$27,504,407		32.00	145.201	100 x	A04 050 705	52 907 372	423%
20.52	121,181	\$28,648,154	\$27,996,135	_	TA CO	10000	5-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	A00 484 600	\$3,274,460	家のため
2013	122,403	\$29,223,992	\$28,479,210	_	(2.82%)	CLZ (X)L	2200, 920, 920 900, 900, 900,	674 676 74R	53.541.414	5.12%
20.	123.627	\$29,811,395	\$20,069,612	_	19000		523,928,028 523,628,028		**************************************	*05'5
2015	124,983	\$30,410,60¥	\$29,665,621		(3.07%)	96,220	150° 170'070		A87 F80 A3	%06.5 %06.5
818	128,112	531,021,857	\$30,277,074		4 30%	1964 JA	400 04R 943	203 172 070	\$4,358,253	\$ 30%
\$	127,373	\$31,645,396	\$30,900,613		(4.67.%)	007.0%	672 C18 AB1	523 169 678	\$4 635 94B	6.70%
2018	128,647	\$32,281,468	\$31,538,686		\$ 500 mg	00000	100 C	A10, 100, 100	\$4 04F 30E	7.10%
2019	129,933	\$000,000,000	\$32, 185,543		(5.62%)	186 AP	\$44,912,009 *** 646,670	CTT SKA SOL	45 199 624	2.5
S	131,233	\$33,592,226	\$32,047,443	(54.482.534)	40 40 50 50	204 FB	**************************************	400 the 600	*5.485.050	· · · · · · · · · · · · · · · · · · ·
2021	132,545	\$34,267,429	\$33,502,647	_	700	7 TT 10 TT 1	603 GOA 807		\$5,774,532	S. See
2022	133,871	\$34,956,205	S34,211,422		(4.70)	0 g 0 '	602 COO 608		SA CHA 260	8.76%
2023	135,209	\$35,658,824	\$34,914,042	(\$5,850,049)	1882	200,022	Para anara an			

APPENDIX 12—DSM ANALYSIS USING THE AURORA MODEL

P11 - Balanced 7: CHANGES TO PORTFOLIO FOR DSM ANALYSIS

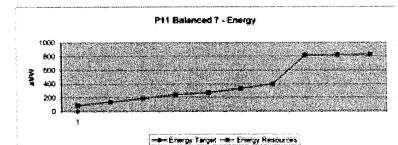
	2004)	rock Stock	3061	760A 250A	3010 3011	3013 2013
Erwyy Twyst	196	132) i:	82 23%	756))	231 4132 3	454 537 531
Capacity Target	\$ 4	N.	71 163	2446 3	35 439 (327 534 708

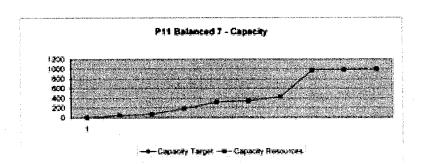
Laury

Decrees to Supply with DSF Charges	80	. 15	4.0	4.1	11.1	17.4	21.1	14.1	a 14. 150	28.0
Peaker's trial parthage by everyy	89	130	199	179	100	152	121	Ø		
DGM - ALL PROCESHING	0	4		15	21	28	3.7	70.00	4	47
100 M/A swint 05		-10. 12.07 1 1 / · · · · · · ·	20	繖	20	26	20	20	29	70
100 NEW wird 07				290	20	20	202	20	25	20
F2 MAY CHIP 07				12	12	×2	12	12	%Ž	12
100 Mail geoffermal Co					100	100	100	100	100	100
150 MAN MAINS NO							397	340	36	20
35 MW CHIP 10							0	36	34	345
62 MW Peakers DG 10							62	62	62	62
500 MW coal sessonal 11								500	500	500
Teer Creaty	ř.s.	134	187	345	271	331	3/27	213	822	8276
	'n	2	₫.	5	43	5.8	-15	353	305	756

apacey.	Marine in Facility and DAY (Sec.)	9.8	2.7	14	14.5	21.5	31.0	34.4	4.5	44.7	
	TR MAY DISM AND It imp disposes	Ç.	39	**	57	67	74	76	75	76	7%
	DOM: ALL PROCRAMS	•		10	21	-1.44		10			100
	100 MW Wind 05			5 .	\$	5	\$	\$	\$	\$	\$
	193 MW Wind 07				5	\$	- %:	\$:	\$	8	\$
	12 MW CHP 07				. 0	12	25	13	12	22	42
	#8 MW peaker (3"44) ©7				86	東 斯	200	849	養務	海承	No.
	100 MAY geometrial (its					100	:00	100	700	100	100
	SEMANCIAP 60						4	. 0	36	> &	26
	62 MW Perkers DO 10							602	62	62	52
	150 MAN VAING 10							8	*	*	8
	500 MW osai sessonal 11								5(4)	530	5(8)
	Total Capacity	Ġ	4.7	7.2	186	321	344	+20	9/3	CEN	100
		.64	45	1	ÌÌ	72	*	~ ≠	450	300	ž ŠŠ

- 1. Products can be not to salisfy monthly energy district
- Demand response programs are counted as capacity. Energy efficiency
- 4. To Nev of find Bucks Benefolinsky is an aministron in available to motives Nev transmission defect. If coupled with a firm market purchase of up to 15 MW, the WW transmission deficit (and the capacity requirement) can be reduced by the amount of the purchase
- PPI, Montana contract expires in 2009. This smallysis assumes that some form of contract self-replace it thus no reduction of capacity occurs in 2010.
 Whiti project colput based on 35% CF and seasonal shaping from NW Power and Consonistion Council resource characterization paper 5th PP.
- Decreased capacity surger by 60 MW souting in 2010 to account for continuation of Montana parchases.
- 9 Included wint capacity credit of 5 MAV per 100 MAV of nameplate capacity baset on July data 10 Exempled "Barket Purchase" from description on cells "CTF" and "CTF", and delated reference to a 250 MW cost plant in 2009
- Revised DSM efficiency programs based on benefit one resid's associated with 5, 11,05 DSM analysis (programs were change sets to PS).





IPC Portfolio Analysis - Totals by Year 2004 IRP Final Portfolio (Portfolio 11) with DSM Modifications AURORAxmp Portfolio Analysis

Portfolio Power Suguly Cost Totals mathout Fixed Carrying Costs

	4	1				Case #2: OSM Comm. & Res. Efficiency Programs Increased	omm. & Res. El	ficiency Progra	are Increased		:		# # # # # # # # # # # # # # # # # # #
Base Case - F11	During Care - Will an Appendicts on Local Re	NA INT									Energy	¥ Š	1 C 2 1 C 2 1 C 2 1 C 2 1 C 2 C 2 C 2 C
4	1	hand the second	1	2	Francis (MIMT)	CI most	Condition	Time Period	Manne	Item	(FEET)	(\$ × 1,000)	×
Run 10	COMOUNCH	THE PERIOD	Calling	,	CALL SON OF	17/4) # 30 104	Barre Sales	Ž	PK hyptosis	Tex.	X (X 6)X	2.2	
きつまる	大きな	Z.	T. Paris		AND TRANSPORT		4.4.4.4	3000	の変なるという	Total	55,22,85	表後 表	(80,080)
20.00	A STATE OF THE PARTY OF THE PAR		W. Portoko	7	15,411,830	The second second	000000	XIII	Mar Portfolio	Tokal	13,922,740	154,579,40	(C.C.).
Mayo Case	Avenue.	2000	IPC Perferin	Total	15,402,390		An in	2004	The fleeth the	Total	14.730430	OC FIGURE 1	3,481.60
Electric Consult	Acomognica	2002	DC Porton	100	16,239,630	AND MON DOWN	A CHARLES	760	The Personal Property of the Personal Property	1	(Apr. 1961)	CO 200 MIN 1	(5,260.80)
400			Desired No.	Total	18,554,000	MAD WAS LIKE	R. Carrier, Sci.	900°	SPL PORTOGO		14 607 940	Col. Cat. 243.	C (91,773,00)
1000 Care	100 Carlo	552	the hypertrain	Total	16.532.7MD	TOOL MAN SET	は一年を	Ę	党を記されて	5	10, 200, 100 11, 200, 200	07 SEE 181 7	3.03
	Section 2	ŧ	Section 2	- Long	17.352.230	AND ROW IT	ACM AND A	græ.	SHC Portons	7	17,591.23	18/4/2006	A CASTAGON
なさらま	No.				の政策 の物質 みっ	A SO STATE STO	Seattle Street	2011	PC Particials	Total	12,742,200	I HUSTAN	TAKE TO A
100 S	*committee		Control of the Control		100 100 mi	TOURS AND	Appendix	3613	PC Portino	Total	18,075,103	2 181,000 E	\$ (17,430.00)
Barian Canac	Statement .		K Present		Polyment Company	Print States and	S. seen to the	3003	and Pertholic	Total	DEC MAN SE	153,E20.60	\$ (15,087.70)
Pare Care	Ammaga	252	Dr. Portolio	<u>1</u>	18,467,330		10 mm	, ide	apt Pretions	76. 10.	13,641,990	の名(名)	\$ (24,979,82)
**************************************	*****	and the second	AC POSSO	通 **	18,611,990	100 E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		3.5	A Porton	a a	PE. Dell ETT	S. 151.98.78	\$ (16,674.90)
April Care	Anna Carlo	555%	新人 たいまんを)	TOTAL	17,041,670	100 a 20 a 20 a	No. of Parties	50.73		7	0.00 0.00	110.410.90	\$ (20,861,30)
	Special Co.	審製	DC Person	Total	19,517,500	大学 東西 次本	XX.	Ď.	Sec. Personal		10 10 11 11 11	OK 1000 UK.) *	\$ (38.501.90)
	The same	700	W. Pertoko	Total	011,578,01	ASS WINDS	(Approximate)	Clar	Section 7d	1	Constitution of	98 98 A	£ (15,016,12)
			Mr. terretran	10	20,155,490	PART NATION LIGHT	Seemed?	30.3	SAC POSTSONO	6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of	C (19 205 93)
	The said		NEW TOWNSON	7	TOTAL TOTAL	WIND MAN DAY	Supervisory.	\$ DOG	ACTION OF	E I	ALMERICAN.	and the state of the	(A) (Mark) 45(1)
Sec Care	Approx.	1000 P	and the second	1	0% C% K	130 M M 154	Service Services	2002	THE PROPERTY.	X T	N. 742. N.C.		Carlosoviani e
を表へを表	N.S.	15.50 15.50	THE PERSONS		Section 197	Man adding Prices	Application of	1,007	変なると	T X	21,186,386	2 2 2	(21,203AW)
\$5.55 E	No.	77	-		(1,2%×.xx)	The second secon	Action with	MO33	SPC Postson	Total	21,546,030	SC +20.45	ST 52.75
	Maryage	25.2	PC Properties		21,559,550			114	Tre Describer	Total	21.524.410	3 HH,027,40	(13,059,60)
Name Care	Approximate and a second	2223	W. Arriva	Total	21,934,410	15.6 May 15.6	Arthur	T PORT	The Parallelle	1	Catal (80)	OF TAX AN	\$ (72,301,31)
200	No. of Contract of	30	DYC PERTONS	Total	Die Land		**************************************		and the state of	7	DE SERVICE	\$6,000.08	\$ (22,058,54)
Rate Care	Autoritate.	2	DK POPPORG	TOTAL	12,460,130	PAR MARK CARE	- Transport	502	SPL PURTNESS		39 00 000	05 CONTROL 8	N. W. S. S.
	*****	Ž	P. Parioto	Town or the last	23,631,646	医公司 第二十二十	A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS		Section 1980		33 260-033	106.4.0.40	\$ (18.911.80)
Section Care	and the same of	, CON.	the Personal	No.	23,797,920	Par Men Chan	S. H. Land	1776	Me Maryland		3. A.	Ch Chick	\$ 79.263.70)
		5	W. Porton	Token	是是一切的现在分	PAN MAN CAN	Section Section	Ŕ	DC POTENTO	8	Company of the		1 X X X X
			W. Participa	Toffee	24,155,993	MSG #828 154	Average	S.	The Postfolio	OCH		Carrier and Carrie	CO THE CO.
ENGINE CLERK			Mary Schoolson	-	A8.484.310	Part Part Part	Same of the last	201	arc fortigo	10	nin to the second	200 000 000 000 000 000 000 000 000 000	STATE OF THE PARTY
	No.	100M			A 100	NATION AND THE	April 16/2	rio.	金を	- T	H, 883, (740)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE PROPERTY OF
20.50	Section 201	i car			91.97.×	PASS MAN SAN	A CHARLES	X (()	Mr. Professor	70	¥ 5	* *C.1.0.40	
* Comme	***	3%K	M. Hymone		A CONTRACTOR AND A CONT	MAN BURN AND	Same and	XIIX	PC Pressure	Tok a	を変える。	· 建筑器	(30'1001'02')
arcar.	Marine Marine	130	AC NOTHING	2									

Portfolio Fixed Carrying Costs (Without DSM Fixed Costs)

	Base Case:		4	4
7	2004 IRP (\$ × 1,000)	#2 (\$ × 1,000)		7 # 2
£003	\$ 181,865.38	\$ 181,965.38	4P	f
2002	\$ 185,603,99	\$ 185,603,99	A).	,
9003	\$ 204,711.78	8 24,711,78	Vt	
2002	\$ 237,451.73	\$ 235,153.21	(C)	(2,2%(5)
8007	\$ 201,164.19	\$ 300,319,77	5/5	or Si
5002	\$ 789,819.82	\$ 280,943.09	n/r	And the second s
2010	\$ 333,387.70	\$ 126,076.13	3,12	FIRS
2011	\$ 424,062.32	\$ 424,669,72	-Un	W-219
2012	413,828.35	414,337,29	P-J.	508.93
2013	\$ 406,729,33	\$ +07,219.82	ν-	25°25*
2014	\$ 599,462.22	# 208,895. H	蜂介	endy sees seed seed seed seed
12	\$ 392,701.03	\$ 393,161.25	S.P.	450.27
91	\$ 386,552,66	\$ 386,999,39	7507	446.73
2017	\$ 380,061.65	\$ 180,495.15	w?	できる。 で。 で。 で。 で。 で。 で。 で。 で。 で。 で
2018	87.167.78. *	\$ 374,166.93	es.	58.55
2019	\$ 367,443,73	\$ 367,870.25	N3	426.53
2020	\$ 3561,558.05	\$ 361,977.63	ng p	419.58
021	\$ 355,781,42	* 356,194,Q	167	15.54
022	350,003,30	\$ 350,428.93	14.7	405.63
023	34.172.48 44.172.48	\$ 344,770.11	100	19461
2024	* 340,005.94	\$ 340,487,45	eg/a	
025	\$ 338,825.37	\$ 107,209.95	wn.	384.58
2026	322,875,66	\$ 33,257.21	*/*	52.23
027	339,283,49	329,636.10	187	342.61
2028	375,084,78	10.407.91	ভাগ	
6202	\$ 322,851.79	323,163.60	-63°(e)	87.8
2030	319,955.21	\$ 120,150.5i	***	235.26
2031	318,457.86	18,646.61	W	200 .35
2032		117,803,47	Abjā	233,26
26/33	* + 12.816.35	\$ +45,012.77	1507	1,1%42

DSM Fixed Costs

	Base	Base Case:	•		Ž	Caro #2
	7	Turk ton		1000	i	
Year	×	(\$ × 1,000)	9	3×1,920	1	ğ
202	w.	*	- 1 17	•	s/h	ŧ
2002	44	11,777,63	**	18,473,65	Agric.	6,596,02
2006	yń.	12,169.54	v,	22,816,80	a grip	10,647,26
2002	•	12,858,07	**	25,603.39	évi-	12,835.32
2008	*	13,522.28	15	28,582,06	بادرى	15,059,78
2009	ų÷.	14,326.89	**	31,140.39	- پائٹوید	16,813,49
2010	**	13,154,32	107	28,484,88	ng dig.	15,320,56
2011	**	13,458,43	w	27,850,72	Wh	14,392,24
2012	•	13,790.62	Wh	27,715.80	برگوت	13,925,18
2013	•	14,119,25	**	27,717,50	عامري	N.83.71
2014	v)	2000年	ų,	27,984,65	بالود	13,393,87
2015	**	3,700.78	**	6,607.07	466	2,817.70
2016	44	3,838,74	ij.	6,241.85	15%	2,406,12
2017	10	3,889.42	W.	5,972.83	rail p	7,00%
2018	4/4	3,939,35	**	5,863,40	4,6%	1,924,05
2019		4,099.02	w	5,994.52	4,8%	05'559'1
2020	**	4,151.83	· V 1	\$,925.70	64,5	1,773,87
2021	4/5	4,206,71	177	5,877.50	杂件	1,670,89
2022	w	4,262.97	w	5,859,56	427	1,596,59
2023	4/4	4,320.66	**	5,917.52	H.P.	
2024	ivis	4,547,36	**	6,102.85	N. Fre	1,555,49
2025	**	4,557.82	**	4,557,82	45%	i
2026	**	4,619,97	***	4.619.07	4.Ph	,
2027	•	4,683.69	100	4,080,09	بيها	*
2028	uh.	4,749.02	w	4,746,02	4£\$	1
2029	**	4.946.S	**	4,946,06	djêr.	*
2030	ţĄ.	S,CLD,2	₩	5,013,79	ANY.	**
2031	**	5,084.18	*#	5,084,18	g proje	*
2032	, in	5,156,35	₩.	5,156,35	44	ŧ
2033	<u>~</u>	5,230.33	9 76	5,730.33	1,24	ल ,

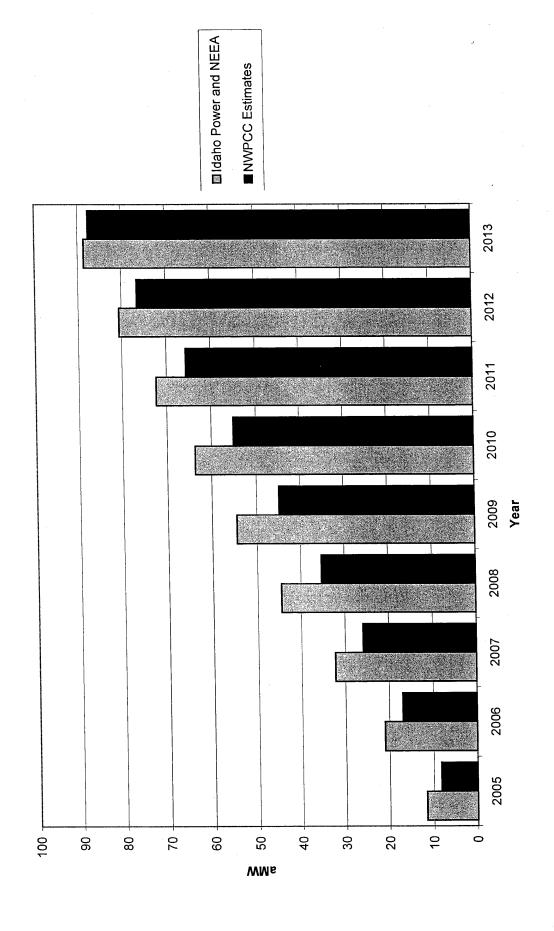
Total Portfolio Power Supply Costs

		the results are restricted to the second sec	Base case includes at enditing and committed resources as of January 1, 2004.	does not be the Particle II recorders and DSM programs as outlined	to rome and interested theorems Plans (1901).	NI 17 C S. COLT AND COLD STORY OF THE STORY	And Calabata Francisco (Calabata Andrea Andrea)	The control page 18,000 for the control of the cont	PATOMORPHICA INTERPRETATION OF THE PARTY INTERPRETATION OF THE PARTY O	THE EAST DESCRIPTION OF THE PROPERTY AND THE PROPERTY AS SERVICED BY 2004 THE	Court and have Markets for the Order Markets, Nat. 2004 - Oct. 2033	一直の大学 では、「一直の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の	DO. Trisched Recovery Plan	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Management of Mala																					
		No. T.			3	#	₹ \$	×		And the second by the second second			_	Therefore		_						2472-2484								***		•				
	Cummulative Present Value of Difference (Case #2 - Base Case) (\$x 1,000)		70 CC - 1	A	24,070.00	\$ 23,581.32	\$ 30,665,59	\$ 36,382.37	\$ 38,846.37	40,882.71	A	200000		50.74.00 M	*******	10.700,122	10/197/OF	*****		\$ 5,000 LO	CALL AND A	(C) 100 (C) 1	(10,659,70)	(10 X 50 4 1) 4	**	+ 4	. 41	*		\$ (34,198.51)	*					
	Difference (Case #2 - Base Case)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*****	05.477.6	04.846.E	9,954.56	8,663.76	4,027.39	3,589,73	2,003.31	SS 2056)	(1,112,80)	(13,356,38)	(18,008.45)	(15,983.98)	(12,039,92)	(15,883,73)	(19,687.00)	-	(22,280,93)		(20,354,21)	(21, 13, 90,	(/ C.U.D. / U.S.	CATACOCIOTI	(20,038,007)	INC PCT FT	(21,691.15)	(18.148.94)	(19,766.78)		\$ (36,334.22)	(3.374.19)		
	3	ļ	*	**	**	*	*	*	**	*	**	v h -	¥ň.	40	**	**	•	**	***	1	**	*	W	*	(Å. 1	/ 1	* 4	÷ 4	* **		n só					
	Case #2	(and + +)	320,265,28	7.7.2	MC,0627.00	392,762.73	514.598.M2	B 757.76.76	536,334.83	596,500.64	QCD: 142.89	500,000,000	567,788,48	550,014.90	M.223.02	517,156,150	452,326,13	党、政策等于	CANDA MA	491, 448, 34		\$500 W	ACC (404)	20'00'00'	を大きる	25.22.23	2. X. E.	200 Mary 100	03/144/70	Carrier Sec.	Part and the second		5,722,757.49 (26,324.22)		(0,104.19)	
	Base Cases 2064 IRP	(a x trucky)	* MANAGE *	2 100 000 10 S	s cycledities s	378,814,39 \$	* XXXX	\$ 11,539,150	\$ 533,307.42 \$	\$ 16:014:765 \$	\$ 12.00,139.57 \$	\$ CALDADANY \$	\$ 00,111,300	\$ 16"11"34K \$	S CONTROL S	\$ 533,140.27 \$	# 150 ESC # 1	\$ 15,000,000	\$ 156.407.42 \$	\$ 581,027.83 \$	\$ 12500,634	* 1.61.88	* 1900,000.00	4.24,472.71 \$	\$ 192129 ¥	-				# 10.000,300 G	A CARACTANA A	*	7.8520% \$ 5,760,081.71 \$			
,	•	2		S	252	2002	9002	500	2010	2011	2012	5003	2014	2002	2016	200	2018	5100	20.00	2021	2002	2002	NOX.	2022	3026		-		9 ;	1607	707	cent.	Discount Rate NPV Difference		Difference	

DSM Targets for 2013 within the Idaho Power Service Territory (aMW)

	esidential	Residential Commercial Irrigation	Irrigation	Industrial	Total
GAI NOC JOWG CHOPI	, <u>, , , , , , , , , , , , , , , , , , </u>	0. 0	5.3	8.7	16.5
Idaho Power 2004 IRP with Increased DSM	15.3	13.9	5.3 8.3	8.7	43.2
Increase to 2004 IRP	13.7	13.0	•	•	26.7
NWPCC 5th Power Plan	32.3	29.4	5.8	20.2	87.6
IPCo Percentage of NWPCC	47%	47%	%666	43%	49%

Idaho Power DSM Including NEEA Compared to NWPCC Estimates



APPENDIX 13—FLIP CHART REGARDING TIM TATUM'S PRESENTATION

Δ Power Supply Costs from Increased Energy Conservation

(Excludes fixed costs, but includes higher levels of DSM—43% total)

- Reduction in cost every year except year 7 (deferred CHP resource that year)
- Fixed cost—increases except in 2 years of deferred resource (does not include DSM)
- 3) What does increasing level of DSM do to power supply costs?
 - By increasing DSM and deferring some CHP resources, shows reduction (\$36 million) (now through 2033) in power supply costs. Net benefit does not occur until 2022—would require investment by company.

APPENDIX 14—FLIP CHARTS REGARDING COMMISSION REPORT

Commission Report

- History of issue that generated work group—IPUC
- II. What did work group do?
 - Studies –problems analysis, assumptions, why we did studies we did
 - o What mechanisms explored
 - Results of investigation (possible solutions/details)
- III. Conclusions and recommendations
 - Questions on wall
- IV. Figures and tables, studies, workshop summaries

Report Review

Drafts circulated to all

Replies go to "report coordinator" from parties

- IPC
- NWEC
- Industry
- IPUC

APPENDIX 15—FLIP CHARTS REGARDING QUESTIONS TO ANSWER

Are there financial disincentives to energy conservation?

If there are financial disincentives, where are they (nature) and what is their extent?

What other information do we need?

Are there financial disincentives to energy conservation?

- IPUC—yes (loss of revenue associated with every kWh unsold)
- IPC
- ICIP
- NWEC

How much lost revenue (recovered) will cause the company to do something otherwise?

- IPC
 - o Re-energizing DSM program
 - Out-of-pocket expenses is bigger concern than lost revenue recovery at this time

Bin

- Is the fixed cost recovery the issue or some other specific way to address DSM?
- 2) How much lost revenue (recovered) will cause company to do something otherwise?

If there are financial disincentives, where are they (Nature), and what is their extent?

- In loss/fixed margin associated with unused kWh needed to recover fixed cost set in a rate case.
 - Magnitude of company energy efficiency effort
 - The more effective energy programs are, the less fixed cost lost margin
- Residential and small commercial ratepayers most affected. Rates would affect this.

Is fixed cost recovery the issue/best way to address DSM

[Cannot be answered at this time]

APPENDIX 16—FLIP CHARTS REGARDING NEXT MEETING AND ACTION ITEMS

Wh	nat	Who	When
1)	Check with commission regarding scope of PBR discussion (DSM related only)	Randy	
2)	Talk with Bill about report coordination—reply to Susan to distribute to work group	Nancy	11/09
3)	Coordinate timing for the draft report to work group for review/status report	Susan	Next meeting or e-mail
4)	Develop PBR strawman well suited for Idaho, done elsewhere	IPUC	Next meeting
5)	Complete Analysis For PBR—IPC—Defer Refined Cavanagh True-Up	IPUC	Next meeting
6)	Refine Cavanagh true- up strawman	Ralph	Next meeting

December 1 meeting (9:30 to 3:30)

- Strawmen presentations
- Evaluation criteria
- Status update

December 13 (alternative or next date)

(corrected 041213)

ASSESSING FINANCIAL DISINCENTIVES AND RESOLUTION OPPORTUNITIES, WORKSHOP #4

DECEMBER 1, 2004, 9:30 A.M. TO 3:00 P.M.
CONFERENCE ROOM 9 EAST, IDAHO POWER CORPORATE HEADQUARTERS, BOISE, ID

Facilitation

Susan Hayman, North Country Resources, Inc.

Documentation Natalie Chavez, Chavez Writing & Editing, Inc.

WORKSHOP OBJECTIVES

- 1) Confirm criteria to evaluate the applicability and desirability of potential mechanisms to remove disincentives/provide incentives for utility investment in DSM programs
- 2) Review two potential mechanisms:
 - a) Refined true-up mechanism
 - b) Performance-based ratemaking mechanism
- 3) Confirm the type of report that will be submitted to the IPUC on December 15 and assignments for preparation and review

WORKSHOP DECISIONS AND OUTCOMES

Participants agreed to a set of evaluation criteria for potential disincentive/incentive mechanisms. The purpose of the evaluation would be to compare and contrast different mechanisms to determine their applicability and desirability.

Participants also decided to recommend a pilot of the performance-based mechanism proposed by IPUC staff for one program until the next rate case. They also want to simulate the true-up mechanism during the same period, based on real numbers, to consider it further and refine the mechanism. The next meeting is scheduled for December 13, 9:00 am to 12:00 pm at IPC to discuss the details of these recommendations. The final report and an application for the pilot program will be submitted to the IPUC some time in January (dates to be determined December 13).

ACTION ITEMS

	What?	Who?	When?
1)	Draft and distribute status report for review and comment	Susan Hayman and Scott Woodbury	December 3
2)	Prepare the outline and anything else necessary for developing the proposal for a pilot performance-based incentive mechanism; bring to the next meeting	IPC (Darlene Nemnich)	December 13
3)	Design the simulation for the true-up mechanism; bring to the next meeting	IPC (Mike Youngblood)	December 13

WORKSHOP INTRODUCTION

Susan Hayman, North Country Resources, welcomed participants (Appendix 1), reviewed workshop objectives (above), and then reviewed the agenda (Appendix 2). She also reviewed posters with the principles of meeting conduct, purpose and products of the workshop series, and important definitions.

MECHANISM EVALUATION CRITERIA

Hayman distributed a handout with potential mechanism evaluation criteria (Appendix 3). She compiled these criteria after telephone conversations with many of the participants prior to the November 8 workshop. Hayman said that the list served as a starting point for developing a final list of criteria against which to evaluate potential disincentive and incentive mechanisms. Participants first clarified their understanding of the criteria, and then revised criteria until they were acceptable to all. Appendix 4 includes flipchart notes taken during the discussion. However, most changes were captured on the wall poster of the preliminary criteria during group discussion. The final revised list is included in Appendix 5.

POTENTIAL MECHANISMS

Refined True-Up Mechanism

Ralph Cavanagh, Natural Resources Defense Council, spoke about the requested revision to the strawman proposal for an Idaho Power true-up mechanism (introduced at Workshop #2 on September 27, 2004). A handout summarized points of the original proposal as well as the proposed revisions (Appendix 6). These proposed revisions included true-up based on actual customer counts for residential and commercial customers (rather than on forecasted sales for all customer classes as originally proposed).

Cavanagh, in cooperation with Idaho Power staff, looked into how often a true-up tied to actual customer counts would have increased or reduced rates for the residential and commercial classes since 1990. For any year during which such a mechanism would have been in effect, rates would have gone down if the class's retail sales had grown more rapidly than the class's customer count, and vice versa. For the commercial sector, electricity use grew more rapidly than the customer count in 10 of the 14 years since 1990. For the residential sector, electricity use grew more rapidly than customer count in 2 of the 14 years, while rates of growth were essentially identical in 3 years (including 2003). These findings confirm the potential for rate decreases as well as increases for both classes under a true-up mechanism, although based on historical data, the likelihood of a rate decrease is substantially greater for the commercial sector than for the residential sector. Cavanagh emphasized that annual class-specific rate increases necessary to ensure recovery of the authorized fixed-cost revenue requirement would never have exceeded 2% under the true-up mechanism. In most years, for both classes, rates would have shifted up or down by 1% or less.

During his presentation, Cavanagh shared the following:

- A bar chart showed the net benefit of expanded energy-efficiency efforts for the Idaho system. The
 high case indicated the greatest net benefit to the system at just over a \$100 million (Appendix 7).
 Given the net benefits, financial disincentives need to be removed so that Idaho Power is encouraged
 to promote energy efficiency through conservation programs.
- This true-up mechanism provides symmetry in that it addresses both lost revenues and found revenues. Therefore, it discourages "perverse incentives" and DSM programs that "look good on paper but aren't effective in practice."
- The revised strawman proposal avoids cross subsidies and is fundamentally fair to the customers.
- A second bar chart showed the annual household energy use (in kWh) for entertainment electronics that will likely be typical of households in about 10 years (Appendix7). It's expected that combined energy use for plasma TVs, DVD/VCRs, and set top box/satellite receivers will be about 1,200kWh annually, up from about 500 kWh now with analog TVs. Workshop participants were cautioned through this example that technological advances and changes in customer habits do not necessarily lead to reduced per-customer electricity usage. This underscores the importance of well-designed energy efficiency incentives, as well as and the merits of the revised NRDC true-up proposal (which ties any increases in fixed cost recovery for the residential and commercial classes to increases in the number of residential and commercial customers).
- A performance-based mechanism could be used in conjunction with the true-up mechanism.

Follow-up discussion among participants focused on how big the impacts of implementing a true-up mechanism would be to residential and commercial customers and how rate adjustments would be calculated. Flipchart notes made during this portion of the workshop are included in Appendix 8.

Performance-Based Ratemaking Mechanism

Lynn Anderson, IPUC, distributed a two-page strawman proposal for a performance-based mechanism (Appendix 9). Before talking about the proposal summarized on the second page, he asked that participants review the hypotheses included on the first page. Until he compiled this list, he had been unable to draft the proposed mechanism. The following issues were raised during discussion of hypotheses:

- Cavanagh questioned the exclusion of increased gas market share from fixed-cost losses in
 hypothesis #7. Idaho Power may be motivated to retain electric market share for water heaters if the
 company is unable to recover the fixed-cost revenue losses resulting from customers' conversion to
 more efficient gas water heaters. This approach seems to penalize the company for these
 conversions and encourage inefficiency. IPUC staff pointed out that Idaho Power could implement a
 DSM program that reimburses customers for converting to energy-efficient gas water heaters.
- Some workshop participants see some inconsistency in the IPUC's view on factors outside Idaho
 Power's control. For example, the strawman proposal disallows Idaho Power from collecting fixedcost revenue losses unless incurred through DSM efforts. Yet reimbursement of fuel costs through
 the company's Power Cost Adjustment (PCA) mechanism does allow for factors outside the
 company's control.
- The means for verifying savings resulting from DSM programs are likely to be "complex, tedious, and expensive."

Following discussion of the hypotheses, Anderson explained the actual proposal, found on the second page of the handout. The IPUC staff's strawman proposal would implement a mechanism to remove financial disincentives by allowing specific fixed-cost revenue recovery for all verified DSM savings with a bonus financial incentive for exceeding cost-effective DSM targets. He pointed out that the financial incentives component of the proposal could also be implemented as a stand-alone approach or with a true-up mechanism. This mechanism, as proposed, would be implemented as a trial restricted to the Residential New Construction program. Residential energy rates have a relatively high fixed-cost recovery component, which means that Idaho Power's financial disincentive for DSM in this class may be higher than for other customer classes. It's also a relatively small program, so effects of any mistakes made in the trial would be minimized. The following points were made during discussion of the performance-based proposal:

- According to Darlene Nemnich, IPC, Idaho Power rewards customers \$750 when they exceed
 building code on energy efficiency by 30% on new construction. Ideally, builders would want to make
 homes as energy efficient as possible, but they are unlikely to want to change codes. Therefore, code
 enforcement and training of code officials is important, and it is reasonable to credit utilities with work
 they do with code enforcement beyond typical DSM programs.
- Because of the trial nature of the mechanism, no penalties are included. Quality control is relatively straightforward, and the targeted customer group is narrow, but the potential for perverse incentives cannot be dismissed.

Flipchart notes pertaining to the performance-based mechanism are included in Appendix 10.

Additional Suggestion

David Hawk, J.R. Simplot Co., suggested that the group conduct an 18-month simulation of the two proposed mechanisms based on real numbers. He believed that all parties and participants had invested too much time discussing concerns with financial disincentives and potential corrective mechanisms for nothing to happen. Because participants may not be comfortable implementing one or both of the proposed mechanisms right now, an 18-month simulation would allow proposals to be studied further and problems worked out before the group forwarded a firm recommendation to the IPUC. The flipchart regarding Hawk's suggestion as well as other modeling options is included in Appendix 11.

NEXT STEPS

Mechanism Analysis/Evaluation

Ric Gale, IPC, requested that the interest groups (IPUC, Idaho Power, Northwest Energy Coalition, and Industrial Customers) caucus before presenting their views on each of the three proposals: true-up mechanism, performance-based pilot, and 18-month simulation of the two proposals. Hayman allotted 15 minutes for caucusing. Afterwards, she asked that group spokesmen share their groups' views on the three proposals and next steps. Industrial Customers felt that David Hawk's previous suggestion for a simulation adequately represented their view. Flipchart notes from the three interest reports are included in Appendix 12.

Idaho Power Company

Gale reported the following Idaho Power perspectives regarding the proposals:

- Idaho Power is concerned about disallowance of program costs. The company endeavors to manage program costs as effectively as possible. But disallowance of program costs and prudence reviews by the IPUC significantly deters DSM investment.
- In the intermediate or long term, the company may want to implement a true-up mechanism. In the next couple of years, Idaho Power wants to undertake the activities in the IRP but is probably unable to ramp up DSM any more than that. They are, however, amenable to simulating the true-up mechanism until the next rate case to at least identify unintended consequences. Gale isn't sure how much influence results of the simulation will have, but it could eliminate a degree of the uncertainties.
- The company is intrigued by IPUC staff's incentive mechanism and supports piloting it with one program until the next rate case and then evaluating its applicability to others.

Northwest Energy Coalition

Ralph Cavanagh shared the following viewpoints for Northwest Energy Coalition representatives:

- They are not convinced that a simulation will change people's minds. Therefore, the coalition isn't interested in pursuing a simulation unless the group is truly committed to moving forward, the simulation/test is credible, and the exercise establishes an architecture that can be used in the next rate case.
- The simulation may or may not be effective in evaluating how Idaho Power Company's appetite for conservation programs would change if a true-up were implemented. Rather, the simulation will give an indication of the rate impact of the true-up under hypothetical scenarios of conservation activity.
- Their commitment to the true-up mechanism hasn't diminished. Although they can forward the proposal directly to the IPUC, they prefer to continue working with this group. Gale commented that the simulation allows the group to refine the mechanism before the next rate case so that they can give the IPUC something feasible.

Idaho Public Utilities Commission

Randy Lobb reported the following points of view for IPUC representatives:

- They understand Idaho Power's concern about cost recovery and prudence reviews. But the IPUC
 will continue these reviews, and the company will likely continue to do a good job. They believe that,
 because of the Energy Efficiency Advisory Group (EEAG), the company is actually at less risk now
 regarding disallowances than it has been in the past.
- The IPUC is interested in piloting the performance-based mechanism on a single program. This pilot allows everyone to see whether the complexity can be worked out and the mechanism is feasible.
- The IPUC is also amenable to the 18-month simulation of the true-up mechanism if the other groups support it. The main purpose of the mechanism is to see how it changes company activities. A simulation may have some value. If nothing else, it keeps a mechanism that the IPUC staff is unlikely to suggest adopting at the moment on the table for future consideration. Working through it now may

provide the company information it needs when it starts making decisions for the next two-year IRP cycle.

Commission Reports and Timelines

Hayman directed participants to discuss the two reports—status and final—to the IPUC and timelines for continued activities. The following decisions were made:

- Scott Woodbury, IPUC, and Hayman will collaborate on the status report and send it out Friday, December 3, for review.
- This group will meet Monday, December 13, to discuss details of the pilot performance-based mechanism and simulation of the true-up mechanism.
- Idaho Power staff will prepare an outline for the pilot program and a design for the simulation for discussion and finalization at the December 13 meeting. The company would like to see the pilot start January 1 (or as soon as possible thereafter) when the DSM program begins. The pilot application does not have to be submitted with the final report, although the report will be supportive of the filing. The group agreed that the final report may precede the application filing unless they were submitted concurrently. The group decided to talk specifically about the timing of the filing and the report at the December 13 meeting.
- Bill Eddie, Advocates for the West, will coordinate the final report, which will likely be a recommendation to implement the pilot and simulation until the next rate case. The draft outline for the report was developed at the November 8 meeting.

WRAP-UP AND WORKSHOP EVALUATION

Hayman reviewed action items to be completed before the next workshop (Appendix 13). This workshop is scheduled for December 13, 2004, from 9:00 am to 12:00 pm. Mike Youngblood agreed to check on the availability of Conference Room 9 East for this workshop. During the workshop, participants will discuss details of the pilot performance-based mechanism and simulation of the true-up mechanism.

Hayman also requested that participants evaluate the workshop. She recorded positive items and possible changes on flipcharts (Appendix 14). Though feelings were mixed on preferable room size and temperature, for the most part, participants are pleased with the honest and frank discussion, facilitation and documentation, and refreshments.

APPENDIX 1—PARTICIPANTS

(Shading indicates work group participants unable to participate in person or by phone.)

Name and Affiliation	Name and Affiliation
Lynn Anderson, IPUC	Laura Nelson, IPUC
Maggie Brilz, Idaho Power	Darlene Nemnich, Idaho Power
Terri Carlock, IPUC	Peter Richardson, Industrial Customers of Idaho
Ralph Cavanagh, Natural Resources Defense Council	Brad Purdy, Community Action Partnership Association of Idaho
Bill Eddie, Advocates for the West	Don Reading, Ben Johnson Associates
Ric Gale, Idaho Power	Greg Said, IPC
David Hawk, J.R. Simplot Co.	David Schunke, IPUC
Nancy Hirsh, NW Energy Coalition	Tim Tatum, Idaho Power
Bart Kline, Idaho Power	Mike Youngblood, Idaho Power
Randy Lobb, IPUC	Scott Woodbury, IPUC

APPENDIX 2—AGENDA

ASSESSING FINANCIAL DISINCENTIVES AND RESOLUTION OPPORTUNITIES WORKSHOP #4

December 1, 2004 9:30am-3:00pm Conference Room 9 East Idaho Power Corporate Headquarters Boise, Idaho

Objectives:

- 1) Confirm criteria to evaluate the applicability and desirability of potential mechanisms to remove disincentives/provide incentives for utility investment in DSM programs
- 2) Review two potential mechanisms:
 - a. Refined true-up mechanism
 - b. Performance-based ratemaking mechanism
- 3) Confirm the type of report that will be submitted to the IPUC on December 15, and assignments for preparation and review

Final Agenda (breaks will be taken when most convenient for the group)

Time	Topic	Process
9:15am	Coffee/Tea available in meeting room	
9:30am	Welcome/Introductions/Meeting Overview – Susan Hayman	Information
9:45am	Mechanism Evaluation Criteria – Susan Hayman	Exercise / Discussion
10:30am	Potential Mechanism Refined true-up mechanism – Ralph Cavanagh	Presentation / Discussion
11:30pm	Lunch (on your own)	
12:30pm	Potential Mechanism Performance-based ratemaking mechanism – Lynn Anderson	Presentation / Discussion
1:30pm	Next Steps – Group Mechanism analysis/evaluation to be completed (using criteria, other?) Nature of the December 15 IPUC report Timelines	Discussion
2:45pm	Wrap-up and Evaluation - Susan Hayman	Discussion
3:00pm	Adjourn	

APPENDIX 3—POTENTIAL MECHANISM EVALUATION CRITERIA

Potential Mechanism Evaluation Criteria

- 1) Balanced (fair) allocation of program costs across shareholders and ratepayers
- 2) Cross-subsidization of program costs across ratepayer groups are minimized
- 3) Removes financial disincentives to the max
- 4) Positive financial benefit (at least less negative effect), measured over time
- 5) Ratepayers are better off than they would be without the mechanism
- 6) Promotes rate stability
- 7) Simple mechanism
- 8) Costs easily tractable
- 9) Mechanism adjustments are predictable and easily understood
- 10) Monitors short and long term effects to customers and company
- 11) Incentives to manipulate the mechanism are not present
- 12) Close link between mechanism and desired DSM outcomes
- 13) Provides adequate incentive for the acquisition of all cost-effective DSM

APPENDIX 4—FLIPCHARTS REGARDING EVALUATION CRITERIA

Criteria

#4 Needs clarification

- "Benefit to all stakeholders from where they would have been otherwise"
- Drop "less negative"—should be net benefit #10 <u>Process</u> needs to monitor mechanism "Ratepayers" are "customers" [change throughout]

#8 Tractable

- Want mechanism that is affordable
- Costs known and manageable, not subject to unexpected fluctuations
- not talking about program cost recovery
 #5 Difficult to know benefits to all stakeholders until after the fact
- #5 is the bottom line

#11 Avoid "perverse" incentives

Stakeholder = company and customers includes everybody

APPENDIX 5—REVISED VERSION OF POTENTIAL MECHANISM EVALUATION CRITERIA

Potential Mechanism Evaluation Criteria

- 1) Stakeholders are better off than they would be without the mechanism
- 2) Minimize cross subsidies across customer classes
- 3) Removes financial disincentives
- 4) Optimizes the acquisition of all cost-effective DSM
- 5) Promotes rate stability
- 6) Simple mechanism
- 7) Administrative costs and impacts of the mechanism are known, manageable, and not subject to unexpected fluctuation
- 8) Monitors short and long term effects to customers and company
- 9) Avoids perverse incentives
- 10) Close link between mechanism and desired DSM

APPENDIX 6—REVISIONS TO THE STRAWMAN PROPOSAL FOR AN IDAHO POWER TRUE-UP MECHANISM

PROPOSED REVISIONS TO STRAWMAN PROPOSAL FOR AN IDAHO POWER TRUE-UP MECHANISM

Submitted by Ralph Cavanagh For discussion at 12/1/04 workshop

I. ORIGINAL PROPOSAL, DISCUSSED AT 9/22/02 WORKSHOP

- 1. Starting point: fixed-cost revenue requirement and retail rates approved by Idaho PUC in latest Idaho Power rate case.
- 2. If, after initial year, changes in retail electricity use lead to under- or overrecovery of fixed cost revenue requirement, a rate true-up would occur in the following year on the same schedule as the Company's current Power Cost Adjustment.
- 3. Until reestablished in the next Idaho Power rate case, the currently approved fixed cost revenue requirement would be automatically adjusted annually to reflect the same rate of increase (or decrease) shown for retail electricity sales, net of any DSM programs, in Idaho Power's latest IRP. True ups would occur annually based on any divergence between the total fixed-cost revenue recovery that forecast sales would have delivered and the fixed-cost revenues actually recovered (so if, for example, sales were forecasted to increased by 2 percent and actually increased by a larger percentage, Idaho Power would refund the difference at the time of the next Power Cost Adjustment; if retail sales increased by a smaller percentage than forecast, Idaho Power would get back the lost revenues at the time of the next Power Cost Adjustment).
- 4. True-ups would occur by customer class based on divergence between actual and forecast sales to each customer class.
- 5. Idaho Power would continue to absorb the risk or benefits of purely weatherrelated effects on fixed-cost revenue recovery, as it does now. This would mean weather normalizing actual sales before making the annual true-up calculation.

MAXIMUM ANNUAL AVERAGE RATE IMPACT OF THE TRUE UP MECHANISM, UP OR DOWN, UNDER EXTREME CONDITIONS = 1.5 PERCENT.

II. PROPOSED REVISIONS AND ANSWERS TO SUBSEQUENT QUESTIONS

A. CHANGES IN CALCULATION OF ANNUAL FIXED COST RECOVERY: Without a true-up, fixed cost recoveries grow in direct proportion to growth in total retail sales, averaging

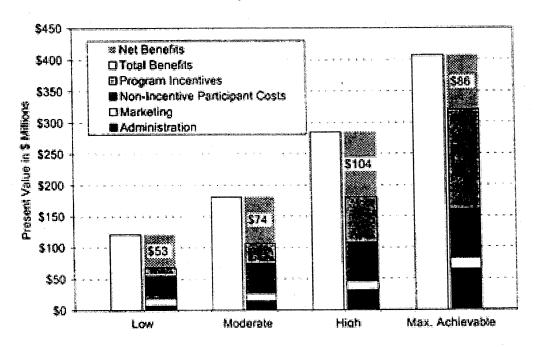
about 2 percent per year over the past decade. The initial proposal called for growth in fixed cost recovery to be tied to annual growth in the forecast of retail sales adopted in the Company's most recent IRP. Concerns were raised that, in the residential and commercial sectors particularly, growth in customer counts could substantially exceed growth in forecast sales, resulting in underrecovery of costs prudently incurred to serve new customers. PROPOSED SOLUTION: Tie growth in fixed cost recovery to actual measured changes in annual customer count for the residential and commercial sectors. This should allow a closer convergence between the fixed cost revenue requirement and actual costs of service.

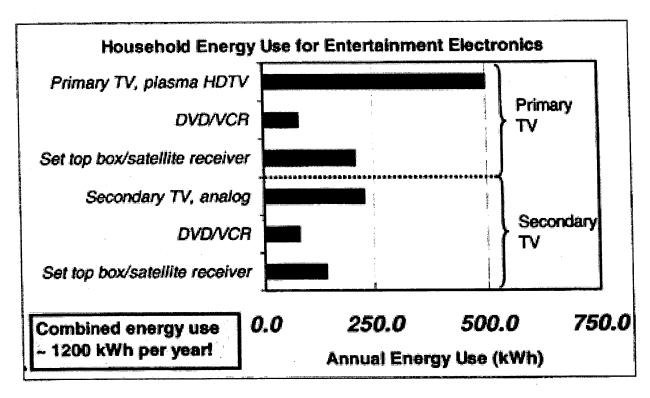
B. RETROSPECTIVE ASSESSMENT: In cooperation with the Company, I looked into how often a true-up tied to customer counts would have increased and reduced rates, respectively, for the residential and commercial classes since 1990 (concerns had been raised that rates would always go up under such a mechanism). For any year during which such a mechanism had been in effect, rates would have gone down if the class's retail sales had grown more rapidly than the class's customer count, and vice versa. So we looked at how often the residential and commercial customer counts increased more rapidly than classwide electricity use in each year, starting in 1990. For the commercial sector, electricity use grew more rapidly than the customer count in ten of the fourteen years from 1990-2003. For the residential sector, electricity use grew more rapidly than customer count in two of the fourteen years, and the rates of growth were essentially identical in three other years (including 2003). This confirms the potential for rate decreases as well as increases for both classes under a true-up mechanism, although based on historical data the likelihood of a rate decrease is substantially greater for the commercial sector than the residential sector. Finally, it should be emphasized that annual class-specific rate increases needed to ensure recovery of the authorized fixed-cost revenue requirement would never have exceeded two percent under the true-up mechanism. In most years, for both classes rates would have shifted up or down by one percent or less.

APPENDIX 7-BAR CHARTS DISTRIBUTED BY CAVANAGH

Exhibit ES-5

Present Value Costs and Benefits - Achievable Potential Scenarios





APPENDIX 8—FLIPCHARTS REGARDING CAVANAGH'S REVISED STRAWMAN

Assumptions for True-Up

- Last year's consumption plus 2% to calculate the rate increase spread over kWh the next year.
- "Clear every year"—don't want to carry significant over/underages/year
- If kWh sales exceed customer count in a class, there would be a rate decrease.
- Question: How to resolve true-up within schedules for irrigators and industrial? [how to true-up with subclasses to the classes]
- Rate impacts could be more volatile under multiple true-up values

APPENDIX 9—PROPOSED STRAWMAN FOR A PERFORMANCE-BASED MECHANISM

Strawman Proposal for DSM Performance Incentive For Discussion at IPC Decoupling Workshop, 12/01/04

Hypotheses:

- 1) The primary DSM financial disincentives in question are those that affect shareholders, rather than managers. These disincentives are primarily "fixed-cost" revenues that are not collected when electricity is not sold; i.e. those portions of energy and demand prices that are based upon utility costs that do not vary with energy usage in the short run.
- 2) Idaho Power will fail to maximize demand-side management (DSM) potential benefits for its customers unless the primary financial disincentive is removed through a regulatory mechanism.
- 3) Idaho Power's customers will be net beneficiaries if the company provides more costeffective DSM as a result of customers paying to remove the primary financial disincentive.
- 4) Rate cases will occur too infrequently to sufficiently mitigate the primary financial disincentive.
- 5) The company is legitimately entitled to recover fixed-cost revenue losses caused by its DSM efforts regardless of the absence of rate case examination of overall costs and revenues.
- 6) Idaho Power is incurring new fixed costs due to customer growth and its incremental fixed costs exceed its incremental fixed-cost revenues. In other words, customer growth does not mitigate fixed-cost revenue losses.
- 7) It is unacceptable to the IPUC Staff to adopt a financial mechanism that would simply allow Idaho Power, without a rate case, to automatically collect <u>all</u> "fixed-cost losses" associated with <u>all</u> kWh per customer sales reductions, much of which is caused by factors not associated with the company's DSM, e.g. increased gas market share. The 10-year lapse between Idaho Power's last two rate cases, in spite of reduced sales per customer, is an indicator that profitability is largely independent of sales per customer.
- 8) It is unacceptable to Idaho Power to adopt a financial mechanism that considers only total sales; i.e. that does not account for growth in the number of customers.
- 9) Removing the primary financial disincentive for DSM can be reasonably accomplished through a mechanism that targets only DSM-caused sales reductions. There are two ways to do this: a) The financial disincentive could be removed by allowing specific fixed-cost revenue recovery for all verified DSM savings; b) The financial disincentive could be removed by providing other financial rewards for verified DSM accomplishments. Method b)'s financial rewards could be stand-alone or used in conjunction with method a) or with decoupling.

Strawman Trial Proposal

Unlike decoupling, both methods a) and b) above require precise measurement and verification of DSM program implementation details, baselines and DSM results, and, as such, are inherently complex, subject to measurement error, and require significant regulatory oversight.

Thus, it is reasonable to implement either of these methods on a trial basis.

For a strawman trial, we have selected a proposal that combines methods a) and (b) above; i.e. recovery of DSM-caused fixed-cost revenue losses with a bonus financial incentive for exceeding cost-effective DSM targets. We suggest that the trial be restricted to the Residential New Construction program. Residential energy rates have a relatively high fixed-cost recovery component, which means that Idaho Power's financial disincentive for DSM for this class may be higher than for other customer classes. This is a comparatively small program, thus minimizing the effects of any mistakes made in the trial. Nevertheless, this program is projected to be very cost-effective for both energy and peak demand savings and "lost opportunity" will occur if it is not vigorously pursued.

The table below illustrates some of the projections for the Residential New Construction program as contained in the IRP. Also shown are discussion starting points for financially rewarding Idaho Power for significantly outperforming its projections. Whatever combination of indicators and incentives are used, the program must remain cost effective to customers.

Possible Indicators	Annual	Fixed-Cost	e.g. Bonus	Bonus Financial Incentive
	Targets	Rev. Recovery	Threshold	(for illustration only)
MW reduction	0.19	n.a.	10% > target	20% of net \$ savings
MWh reduction	1,661	actual MWh	10% > target	10% of net \$ savings
		saved x \$31.20		
Idaho Power \$/peak kW	5.30	n.a.	10% < target	5% of program costs
Idaho Power \$/kWh	0.036	n.a.	10% < target	5% of program costs
Total Resource \$/peak kW	8.50	n.a.	10% < target	5% of total costs
Total Resource \$/kWh	0.058	n.a.	10% < target	5% of total costs
Participant Payback	6.5 yr.	n.a.	10% < target	5% of participants' costs
Number of Participants	?	n.a.	10% > target	5% of program costs
Market Transformation	?	n.a.	?	5% of program costs

APPENDIX 10—FLIPCHARTS REGARDING PERFORMANCE-BASED MECHANISM

PBR/Hypothesis Discussion

- 1) Managers = utility company managers
- This proposal does not address "found" revenues and has a narrow view of "lost" revenues (DSM-related only)
- #7 Concern about not linking advantages of true-up with issues about increased gas market share
 - Staff wants fixed-cost recovery for DSM-related programs (utility co. control) \rightarrow NOT consensus with group on this
- 4) Energy savings calculations would be difficult and problematic
- 5) Cost recovery may be a bigger issue than lost revenues
- 6) Proposal is for residential construction only (Energy Star program—exceeding building codes)
- Some potential for perverse incentives need to monitor closely

APPENDIX 11—ADDITIONAL SUGGESTIONS

Bin

 18-month financial simulation of proposals real, documented numbers for FCR

Options

- 1) Model period of 10 years
 - a) "Council level" of conservation against IPUC staff proposal
 - b) True-up with "Council levels" of conservation
- Use maximum net benefit scenario:
 - rate impacts
 - o IRP baseline

APPENDIX 12—INTEREST REPORTS

Interest Reports

IPC

- Disallowance of program costs will kill DSM—first and foremost disincentive
- Problem of lost revenues will have a...material impact on amount of loadreducing activities we undertake in short and long term
- Next couple years, company will undertake DSM identified in IRP—can't take on any additional in this period (ramp-up ability limited)
- 4) 18-month simulation of T.U. mech. would help relieve uncertainties (unintended consequences) prior to next rate case
- Intrigued with staff incentive mechanism, and piloting with one program then determining applicability to others

NWEC

- Not convinced simulation will change minds—not interested in pursuing unless group is really committed to moving forward and simulation/test is credible with everyone and materially improve likelihood of approval by Commission
- Retain right to bring proposal to Commission directly, but would rather work as a group

IPUC-Staff

- Staff will continue cost-effectiveness/ prudence review
- 2) Interested in pilot incentive based program. Can work on measurement and evaluation to see if doable.
- 3) 18-month simulation—main impact of T.U. mechanism is to see how it changes company's behavior. Wouldn't oppose proceeding with this, though unsure of real value of simulation. May be best we can do now to keep alive without killing it.

APPENDIX 13—NEXT STEPS AND ACTION ITEMS

Next Steps

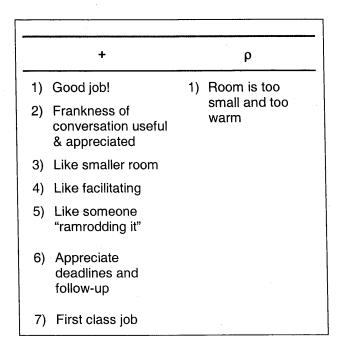
- 1) Status report on 15th
- 2) Flesh out concept of pilot and simulation on 13th (9:00–Noon)
- 3) Provide full report in January with recommendation, what we discussed and why we're proposing this approach. Decision at end point.

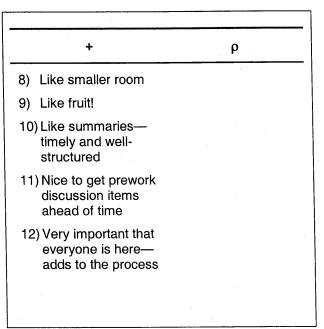
4)	IPC would submit application for pilot to
•	commission—projected date by end of
	January (simultaneous with filing or at least
	final report first)

5) Assuming model can be set up, could possibly start accounting after first of year (January 1 if possible)

	Action	Items	
WI	nat	Who	When
1)	Draft status report for review and comment	Scott and Susan	12/03/04
2)	Bring what is necessary for pilot proposal—outline for filing	IPC (Darlene)	12/13/04
3)	Bring simulation design	IPC (Mike)	12/13/04

APPENDIX 14—WORKSHOP EVALUATION COMMENTS





+ ρ

13) Appreciate cheese and celery!

14) Appreciate comprehensive summaries

15) Enjoyed open and honest discussion, and movement in positions

16) Like follow-up with meeting summary—that it is right